Self Diagnosis
Supported model

SERVICE MANUAL

AE-6D CHASSIS

MODEL	COMMANDER	DEST	CHASSIS NO.
KD-32NX200U	RM-939	UK	SCC-Q84L-A

FD Trinitron

KD-32NX200U

RM-939

TRINITRON ® COLOR TV

SONY®

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ATTENTION

APRES AVOIR DECONNECTE LE CAP DE'LANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION !!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENTION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÈ LORS DE TOUT DÈPANNAGE LE CHÁSSIS DE CE RÈCEPTEUR EST DIRECTMENT RACCORDÈ Á L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS Á LA SECURITÈ!!

LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PAR UNE MARQUE ⚠ SUR LES SCHÈMAS DE PRINCIPE, LES VUES EXPLOSÈES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÈCURITÈ DU FONCTIONNEMENT, NE LES REMPLACER QUE PAR DES COMPSANTS SONY DONT LE NUMÈRO DE PIÈCE EST INDIQUÈ DANS LE PRÈSENT MANUEL OU DANS DES SUPPLÈMENTS PUBLIÈS PAR SONY.

CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR THE CARBON PAINTED ON THE CRT, AFTER REMOVAL OF THE ANODE CAP.

WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE WORK TO AVOID POSSIBLE SHOCK HAZARD DUE TO LIVE CHASSIS, THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE POWER LINE.

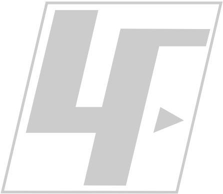
SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARKED ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

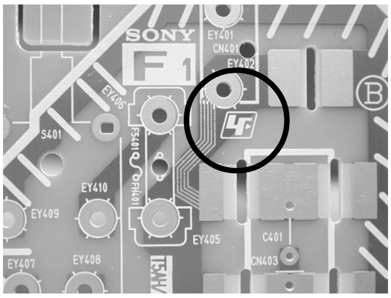
CAUTION

Lead Free Soldered Boards

The circuit boards listed below [Table 1] used in these models may have been processed using Lead Free Solder. The boards are identified by the LF logo located close to the board designation e.g. F1, H1 etc [see examples]. The servicing of these boards requires special precautions to be taken as outlined below.



example 1


SONY
F1
EY401
CN401
EY402
S401
EY406
EY410
EY409
EY405
C401
EY407
EY408
CN403

example 2

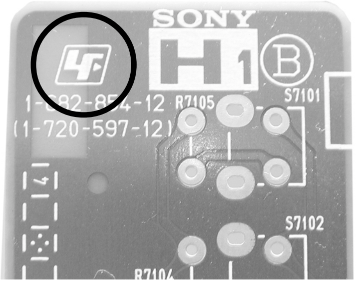

SONY
H1
1-682-854-12
(1-720-597-12)
R7105
S7101
S7102
R7104

Table 1

Board	Function
H3	Front AV Input, Headphone and Control Switches

It is strongly recommended to use Lead Free Solder material in order to guarantee optimal quality of new solder joints. Lead Free Solder is available under the following part numbers :

Partnumber	Diameter	Remarks
7-640-005-19	0.3mm	0.25Kg
7-640-005-20	0.4mm	0.50Kg
7-640-005-21	0.5mm	0.50Kg
7-640-005-22	0.6mm	0.25Kg
7-640-005-23	0.8mm	1.00Kg
7-640-005-24	1.0mm	1.00Kg
7-640-005-25	1.2mm	1.00Kg
7-640-005-26	1.6mm	1.00Kg

Due to the higher melting point of Lead Free Solder the soldering iron tip temperature needs to be set to 370 degrees centigrade. This requires soldering equipment capable of accurate temperature control coupled with a good heat recovery characteristics.

For more information on the use of Lead Free Solder, please refer to *http://www.sony-training.com*

ITEM MODEL	Television System	Stereo System	Channel Coverage	Color System
U	I, DVB-T	NICAM Stereo	UHF : B21-B69	PAL, NTSC3.58, NTSC4.43 (VIDEO IN) MPEG-2, MP@ML

Picture Tube	FD Trinitron Approx 82 cm (32 inches) (Approx 76 cm picture measured diagonally) 102° degree deflection
Input/Output Terminals [REAR]	
1: 21-pin Euro connector (CENELEC standard)	Inputs for Audio and Video signals. Inputs for RGB. Outputs of TV Video and Audio signals.
2: 21-pin Euro connector	Inputs for Audio and Video signals. Inputs for RGB. Outputs of TV Video and Audio signals.
3: 21-pin Euro connector	Inputs for Audio and Video signals. Inputs for S Video. Outputs for Video and Audio signals (selectable)
Phono Jacks	Output Connectors variable for Audio Signals
PCMCIA Socket	Conditional Access Module
Input/Output Terminals [FRONT]	
Headphone jack	stereo mini jack
Audio inputs	phono jacks
Video inputs	phono jacks
S Video input	4 pin DIN

Sound Output	
Right and Left speaker	2x20W (Music Power) 2x10W (RMS)
Subwoofer	1x30W (Music Power) 1x15W (RMS)
General Specifications	
Power Requirements	220 - 240V
Power Consumption	154W
Dimensions	Approx 910 x 445.5 x 590mm
Weight	Approx 67kg
Supplied Accessories	RM-939 Remote Commander IEC designated R6 battery (2) RF Loop through cable
Other Features	DRC MF, DCF, DNR, HOP, 2000 PageTeletext Memory , Virtual Dolby, BBE
Remote control system : Infrared control	
Power requirements	3V dc 2 batteries IEC designation R6 (size AA)

Design and specifications are subject to change without notice.

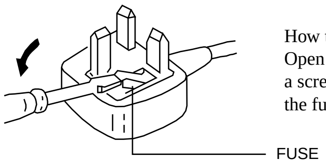
Model Name / Item	KD-32NX200U
PAP	OFF
PIP	OFF
RGB Priority	ON
Woofer Box	ON
Scart 1	ON
Scart 2	ON
Front in (4)	ON
Scart 3	ON
Projector	OFF
Norm B/G	OFF
Norm I	ON
Norm D/K	OFF
Norm AUS	OFF
Norm L	OFF
Norm SAT	OFF
Norm M	OFF
Teletext	ON
Nicam Stereo	ON

WARNING (UK Models only)

The flexible mains lead is supplied connected to a **B.S. 1363** fused plug having a fuse of **5 AMP** rating. Should the fuse need to be replaced, use a **5AMP FUSE** approved by ASTA to **BS 1362**, ie one that carries the ASTA mark.

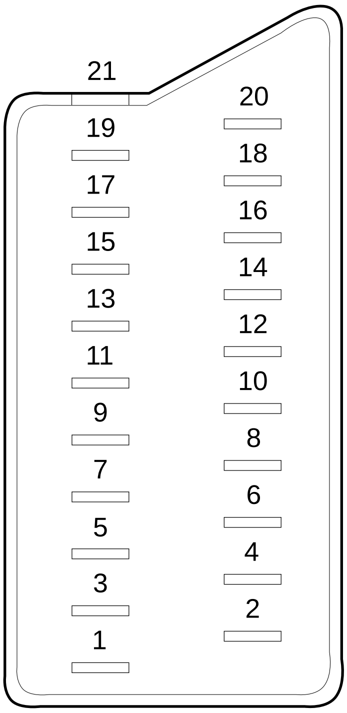
IF THE PLUG SUPPLIED WITH THIS APPLIANCE IS NOT SUITABLE FOR THE OUTLET SOCKETS IN YOUR HOME, IT SHOULD BE CUT OFF AND AN APPROPRIATE PLUG FITTED. THE PLUG SEVERED FROM THE MAINS LEAD MUST BE DESTROYED AS A PLUG WITH BARED WIRES IS DANGEROUS IF ENGAGED IN A LIVE SOCKET.

When an alternative type of plug is used, it should be fitted with a **5 AMP FUSE**, otherwise the circuit should be protected by a **5AMP FUSE** at the distribution board.



How to replace the fuse.
Open the fuse compartment with a screwdriver blade and replace the fuse.

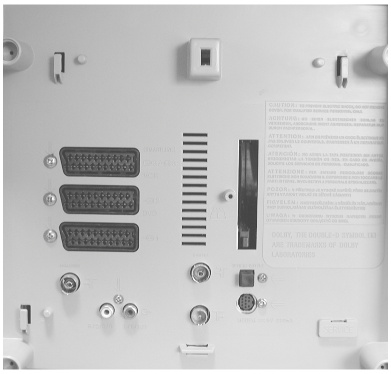
21 pin connector



Pin No	1	2	3	Signal	Signal level
1	○	○	○	Audio output B (right)	Standard level : 0.5V rms Output impedence : Less than 1kohm*
2	○	○	○	Audio input B (right)	Standard level : 0.5V rms Output impedence : More than 10kohm*
3	○	○	○	Audio output A (left)	Standard level : 0.5V rms Output impedence : Less than 1kohm*
4	○	○	○	Ground (audio)	
5	○	○	○	Ground (blue)	
6	○	○	○	Audio input A (left)	Standard level : 0.5V rms Output impedence : More than 10kohm*
7	○	●	●	Blue input	0.7 +/- 3dB, 75 ohms positive
8	○	○	○	Function select (AV control)	High state (9.5-12V) : Part mode Low state (0-2V) : TV mode Input impedence : More than 10K ohms Input capacitance : Less than 2nF
9	○	○	○	Ground (green)	
10	○	○	○	Open	
11	○	●	●	Green	Green signal : 0.7 +/- 3dB, 75 ohms, positive
12	○	○	○	Open	
13	○	○	○	Ground (red)	
14	○	○	○	Ground (blanking)	
15	○	–	–	Red input	0.7 +/- 3dB, 75 ohms, positive
	–	○	○	(S signal Chroma input)	0.3 +/- 3dB, 75 ohms, positive
16	○	●	●	Blanking input (Ys signal)	High state (1-3V) Low state (0-0.4V) Input impedence : 75 ohms
17	○	○	○	Ground (video output)	
18	○	○	○	Ground (video input)	
19	○	○	○	Video output	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
20	○	–	–	Video input	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
	–	○	○	Video input Y (S signal)	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
21	○	○	○	Common ground (plug, shield)	

○ Connected ● Not Connected (open) * at 20Hz - 20kHz

Rear Connection Panel



Front Connection Panel

MEMORY STICK

S-Video socket

S Video socket pin configuration		
Pin No	Signal	Signal Level
1	Ground	-
2	Ground	-
3	Y (S signal) input	1V+/- 3dB 75ohm, positive Sync. 0.3V -3 +10dB
4	C (S signal) input	0.3V+/- 3dB 75ohm, positive Sync.

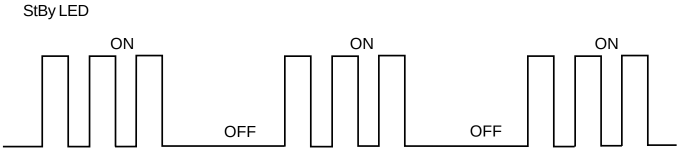
AE-6D SELF DIAGNOSTIC SOFTWARE

The identification of errors within the AE-6D chassis is triggered in one of two ways :- 1: Busy or 2: Device failure to respond to IIC. In the event of one of these situations arising the software will first try to release the bus if busy (Failure to do so will report with a continuous flashing LED) and then communicate with each device in turn to establish if a device is faulty. If a device is found to be faulty the relevant device number will be displayed through the LED (Series of flashes which must be counted) See table 1., non fatal errors are reported using this method.

Diagnostic Item Description	No of times Standby LED Flashes	Probable cause Location	Detected Symptoms
Power does not turn on	Does not light	Power cord is not plugged in. Fuse is open circuit.	Power does not come on No power is supplied to the TV AC power supply is faulty
+B Overcurrent (OCP)	2 times	H.OUT (Q8102/8103) is shorted. (D1 Board) Linearity FET (Q8106) is shorted. (D1 Board) IC8801 Power IC is shorted. (D1 Board)	Power does not come on Load on power line has shorted
Vertical Deflection stopped	4 times	+15V is not supplied R8207 open (D1 Board) -15V is not supplied R8206 open (D1 Board) IC1701 is shorted (A Board)	Vertical deflection pulse has stopped Power line has shorted

Error Message	**LED Code**
Reserved	01
OCP (Over Current Protection)	02
OVP (Over Voltage Protection)	03
Vertical Protection	04
Unstable AKB(check starts after 30s,disabled in Production Mode)	05
Horizontal Protection	06
Speaker Protection	07
I2C Bus Error	08
M2-B. ST24C32,NVM	09
A-Board	10
B5 Board	11
J2 Board	12
H Board	13
MS Board	14
B5-B. Main Colour Decoder	15
A-B. CXA2150Q, Backend	16
A-B. MSP3411, Sound Proc.	17
Not used	18-32

Flash Timing Example : e.g. error number 3



Error Detection Monitor

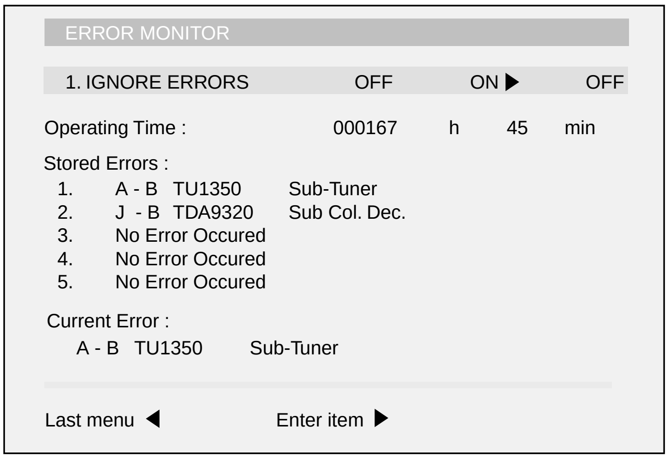
Device acknowledge is used to check IIC errors. Device acknowledge is checked by sending an IIC start sequence during CRT power on. Each device is checked three times, if there is no acknowledge after each attempt, it will be regarded as an error.
There are three steps to check for errors.

1. IIC line 0
   If all devices except the NVM have errors, IIC line 0 error is displayed.
2. Board check
   If all devices mounted on one board have errors, board error is displayed.
3. Each device check
   If IIC line error and board error are not detected then the device with the error is displayed.

The detected errors can be displayed as follows :

1. Error Monitor Menu.
2. Error Reader.

1. Error Monitor Menu



ERROR MONITOR

1. IGNORE ERRORS OFF ON ▶ OFF

Operating Time : 000167 h 45 min

Stored Errors :
1. A - B TU1350 Sub-Tuner
2. J - B TDA9320 Sub Col. Dec.
3. No Error Occured
4. No Error Occured
5. No Error Occured

Current Error :
A - B TU1350 Sub-Tuner

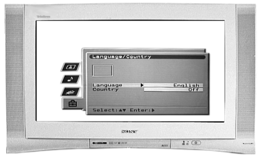
2. Error Reader Display

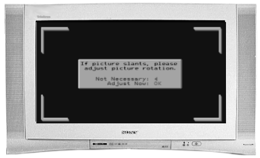
The error reader display is connected to the service connector to read actual error codes. The part number for the error reader display is S-188-900-10. Once an error has been detected it will then be displayed on the two digit error reader. The errors displayed refer to the following table.

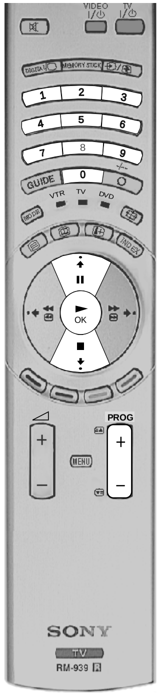
Error Code	Error Message
000h	No Error Occured
001h	Bus Error, I2C0
002h	Bus Error, I2C1
003h	Bus Error, I2C2
100h	A-Board
101h	A-B. CXA1875, Port Exp.
102h	A-B. TU60xx, Main-Tuner
103h	A-B. TDA9886, Main IF
104h	A-B. CXA2150Q, Backend
105h	A-B. MB88141, DAC
106h	A-B. MSP3411G, Sound Proc.
107h	A-B. CXA8070, Dyna. Conv.
200h	B5-Board
201h	B5-B. Main Colour Decoder
202h	B5-B. Sub Colour Decoder
203h	B5-B. MIDX
204h	B5-B. Panorama Gate Array
205h	B5-B. Dig. Noise Reduction
300h	H-Board
301h	H-B. CXD2088, AVLink
400h	J-Board
401h	J2-B. CXA1855, AV Switch
402h	J2-B. CXA2149, AV Switch
403h	J2-B. TU60xx, Sub-Tuner
404h	J2-B. TDA9886, Sub IF
500h	M2-Board
501h	M2-B. ST24C32, NVM
600h	MS1-Board
601h	MS1-B. Memory Stick

The operating instructions mentioned here are partial abstracts from the ‘Operating Instruction Manual’. The page numbers of the ‘Operating Instruction Manual’ remain as in the manual.

5 Automatically tuning the TV







1. When you switch on the TV for the first time, the Sony logo appears on the TV screen followed by the ‘Memory Stick’ logo, then the Language/Country menu with the word ‘English’ highlighted. Press the ↑ or ↓ buttons on the remote control to highlight your required language. Press the **OK** button to confirm your choice. From now on all menus appear in your chosen language.

2. The word Country is now highlighted. Press the ↑ or ↓ buttons to highlight the country in which you are using the TV. Press the **OK** button to confirm your choice.

   Note: The digital features of this set are designed for use in Great Britain only.

   The picture rotation prompt appears. Sometimes the Earth’s natural magnetism can cause the screen to look tilted.
   a) If no correction is required, press the ← button.
   b) If some correction is required, press the **OK** button. Press the ↑ or ↓ button to rotate the picture over a range of -5 to +5. Press the **OK** button to store.

   The autotune prompt screen appears. Press the **OK** button to select Yes and begin the digital autotune procedure.

   When all the available digital programmes are found, the analogue tuning display appears and all the analogue signals are captured and stored.

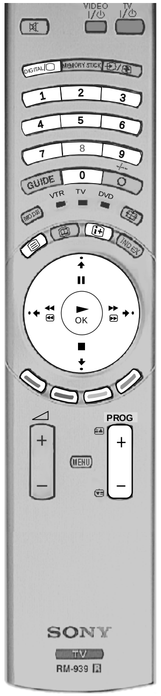
   If no digital and no analogue signals are found, a display appears on screen asking you to confirm your aerial is connected. Check your aerial is connected then press the **OK** button to repeat the tuning procedure.

   Once all signals have been captured and stored, the TV returns to normal operation and displays the digital programme captured on programme number 1.

   Note: If no digital signals are captured, then the analogue programme stored on programme number 1 is displayed.

3. To view programmes, press the **PROG+/-** button or the numbered buttons on the remote control.

Using a digital text service



Most digital TV channels broadcast information via their text service. This digital service includes high quality text and graphics along with advanced navigation options. Additionally, this TV has access to dedicated text channels transmitted by the broadcasting authorities. The appearance, content and navigation methods of all digital text services are decided by the broadcaster. For example, the BBC’s digital text service may look different to ITV’s digital text. However, the digital text services currently available use simple navigation methods based on the following buttons:

The text button ▤ to load up the digital text,
The ↑, ↓, ← and → buttons (to move around the screen),
The **OK** button or the numbered buttons (to select items on screen),
The four coloured buttons (to access shortcuts).

Selecting a dedicated digital text channel

1. Press the ⓘ button on the remote control to check if you are in digital mode. If you are watching a digital programme an Info display appears on screen providing brief details for the current and next programme. If the display does not appear, press the **DIGITAL/**▢ button to switch to digital mode.

2. Press the ⓘ button to remove the Info display from the TV screen then select the programme number that is broadcasting the dedicated digital text channel by using the numbered buttons on the remote control. If you do not know the channel number of a dedicated digital text channel, you can use the ‘Channel Index menu’ to find one. (Please refer to the ‘Channel index menu’ section of this manual.)

3. Once the text page is displayed, follow the on-screen instructions to obtain your required selection.

   Note: On some pages the TV programme may also be displayed on the text screen. On-screen instructions will inform you how to change the displayed programme.

4. If you are instructed to press ‘OK’ or ‘Select’ when viewing the text pages, press the **OK** button.

5. When you have finished viewing the text service, press the ▤ button to exit.

Selecting a text service from other digital channels

Normal text services may also be available on other digital channels. This is sometimes indicated by a small symbol on your TV screen, superimposed on the programme you are watching.

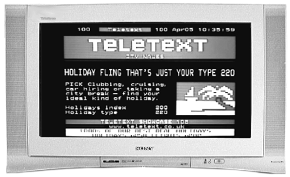
1. Press the ↑, ↓, ←, or → buttons to select the symbol, then press the **OK** button to display the chosen information.

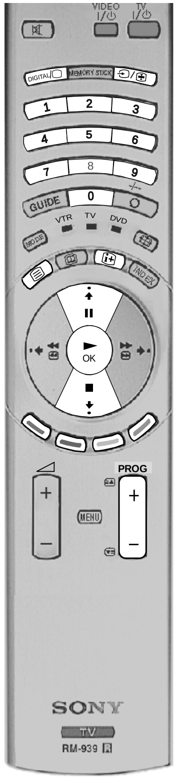
2. Alternatively, you may be instructed to use the numbered or coloured buttons on your remote control to display the various pages of text information. If you are instructed to press ‘OK’ or ‘Select’ when viewing the text pages, press the **OK** button.

3. Once the text information is displayed, you can access required information by using the ↑, ↓, ←, or → buttons, the coloured buttons and/or the numbered buttons on the remote control.

4. When you have finished viewing the text service, press the ▤ button to exit.

Using a conventional text service





Most analogue TV channels broadcast a text service. The index page (usually page 100) provides information on how to use the service. Please ensure you are receiving a strong signal or some text errors may occur.

Switching on the text service

1 Press the ⓘ button on the remote control to check if you are in analogue mode. If you are watching a digital programme an Info display appears on screen providing brief details for the current and next programme. To change to analogue programmes press the **DIGITAL/▭** button.

2 Select the TV channel that carries the text service you wish to view

3 Press the ▤ button to enter Picture and Text (P&T) mode. The screen is divided into two with the Text display on the left and the TV channel in the right corner.

Press the ▤ button a second time to enter full screen Text mode.

Press the ▤ button a third time to enter Mix mode.

4 Press the numbered buttons to enter a three digit number for the text page you wish to view. Your selected page appears on screen.

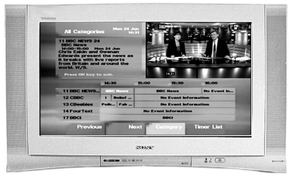
5 Enter more 3 digit page numbers as required.

6 When you have finished viewing the text service, press the **DIGITAL/▭** button to remove the text display from the screen.

How to use the text features

Text Features	How to select
To select the next or preceding page	Press the ▽ or △ button.
To select a sub page	A text page can consist of several sub pages. In this case an information box is displayed at the bottom of the screen showing the number of sub pages available. Select the sub pages by pressing the ↑ or ↓ button.
To keep a page on display	Press the ⊜ button. Press again to cancel.
To use Fastext	Fastext allows you to access pages with one button push. When Fastext is available, four coloured items appear at the bottom of the screen. Press the corresponding coloured button on the remote control to display the page.
To use the Page Catching feature	Select a page that contains several page numbers (e.g. the index page), then press the **OK** button. Press the ↑ or ↓ button to highlight the page number required, then press the **OK** button again. Your selected page appears on screen.

The EPG menu



The EPG menu (Electronic Programme Guide) provides a quick and easy way to:-

a) View a complete list of the programmes available.
b) Obtain a preview of the programmes currently being broadcast.
c) Create a list relating to a category of programme, e.g. Sports or Movies.
d) Record programmes.

DIGITAL
MEMORY STICK
GUIDE
VTR
TV
DVD
INDEX
OK

1. The EPG menu is only available when watching digital channels. To check if you are in digital mode, press the ⓘ button on the remote control. An Info display appears on screen providing brief details for the current and next programme. If the display does not appear, press the **DIGITAL/▭** button.

2. Press the ⓘ button to remove the Info display from the screen then press the ▣ button to display the EPG menu screen. This screen consists of an information window, a preview window, a 2 hour timer bar (divided into 30 minute intervals) and a 5 channel programme list covering the 2 hour period.

3. Press the ↑ or ↓ buttons to move the cursor bar up or down the programme list and the → or ← buttons to move left and right. If you press the → button once more after highlighting the last programme on the right, the programmes scheduled for the next 2 hour period are displayed. As each programme is highlighted, a brief description of the programme appears in the event information box at the top left of the screen. If you do not wish to select a programme from the 5 channels listed, press the **GREEN** button to display the next 5 channels or **RED** button to display the previous 5 channels.

4. If a programme you highlight is currently being broadcast, you will be prompted to press the **OK** button to obtain a preview.

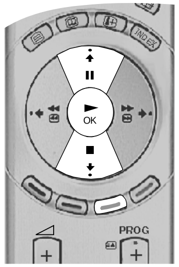
*Note:If an age limit for viewing has been set and the programme selected exceeds that age limit, you will need to enter your PIN code before the preview is displayed. Refer to 'The Main menu' for more information on the 'PIN Code' feature. Programmes that exceed the age limit you have set will be identified by a 🔒 symbol.

5. When the programme in the preview screen is the one you want, press the **OK** button to exit the EPG menu and view the programme at full size.

The Category pop-up list

All Categories
Category
Favourite
Sports
News

The Category pop-up list allows you to search for programmes quickly by dividing the channels into different categories. For example, if you select 'News' from the Category pop-up list, then only programmes related to News will be shown in the EPG menu.



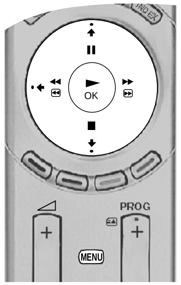
1. With the EPG menu on screen, press the **YELLOW** button to display the Category pop-up list.

2. Press the ↑ or ↓ buttons to highlight the category you want, then press the **OK** button. The EPG programme list will now only contain programmes of the type selected.

For information on the category types as well as instructions on how to add and remove programmes from the Favourite list, please refer to 'The Channel Index menu' section on the previous page.

The following pages explains the TV set up menus and their operation. Although most of these menus can be accessed whilst watching digital programmes, we recommend you view them in analogue mode. To check which mode you are in, press the ⓘ button on the remote control. If you are watching a digital programme, an Info display appears on screen providing brief details for the current and next programme. If this happens, press the **DIGITAL/** ▢ button on the remote control to switch to analogue channels.

Using the TV menu system



This TV contains a menu system which is based on a series of on screen displays. These displays help you get the most from your TV, from customising the picture and sound to accessing advanced features. Use the following buttons on the remote control to operate the TV menu system.

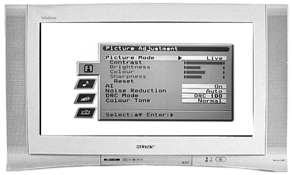
1. Press the **MENU** button to display the main menu.

2. Use the following buttons to operate the menu:

- Press the ⬇ or ⬆ buttons to highlight the required menu or option.
- Press the ➡ button to enter the required menu or option.
- Press the ⬅ button to return to the last menu or option.
- Press the ⬇, ⬆, ⬅ or ➡ buttons to alter the settings of the selected option.
- Press the **OK** button to confirm and store your selection.

3. Press the **MENU** button to remove the menu from the TV screen.

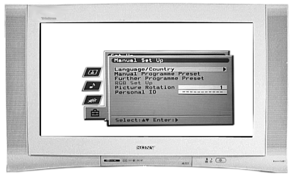
Picture Adjustment menu



INDEX
OK
PROG
MENU

This menu allows you to customise the picture. Highlight the required option and press ➡ to select. The table below explains each option and how to use it.

Option	How to use
Picture Mode This option allows you to select one of four picture modes. Live, Movie and Game modes are preset and only Contrast can be adjusted. The Personal mode, however, also allows you to adjust the Brightness, Colour and Sharpness options.	Press ⬆ or ⬇ to select Live, Personal, Movie or Game. Press **OK** to confirm.
Contrast, Brightness, Colour, Sharpness These options allow you to adjust the contrast, brightness, colour and sharpness. **Note:**Brightness, Colour and Sharpness can only be adjusted when Picture Mode is set to Personal.	Press ⬅ or ➡ to set the levels. Press **OK** to confirm.
Reset This option resets all picture settings to the factory preset levels.	Press ➡ to restore default picture settings.
AI (Artificial Intelligence) This option monitors the picture and limits any sudden increases in Brightness and Contrast.	Press ⬆ or ⬇ to select On or Off. Press **OK** to confirm.
Noise Reduction Sometimes a weak signal can produce a snowy picture (called Picture Noise). This option can help to reduce this effect.	Press ⬆ or ⬇ to select High, Mid, Low, Auto or Off. Press **OK** to confirm.
DRC Mode DRC (Digital Reality Creation) Mode allows you to enjoy higher quality pictures. The settings available are: **Off**:Basic 100Hz picture quality. **DRC 50**:Improved picture resolution. DRC 100:Optimum picture resolution	Press ⬆ or ⬇ to select Off, DRC 50 or DRC 100. Press **OK** to confirm.
Colour Tone This option allows you to alter the tint of the picture. The settings available are: **Warm**:Gives the white colours a red tint. **Normal**:Gives the white colours a neutral tint. **Cool**:Gives the white colours a blue tint.	



INDEX
OK
PROG
MENU

Manual Set Up menu

This menu gives you access to more advanced features. The options are:

Language/Country
When you first installed the TV you were asked to select your language and country. The ‘Language/Country’ option in the ‘Manual Set Up’ menu allows you to change these settings. With the ‘Language/Country’ option highlighted, press ➡ to enter the ‘Language/Country’ menu. Press ⬇ or ⬆ to select ‘Language’ or ‘Country’. Press ➡ to select. Press ⬇ or ⬆ to highlight the required setting. Press **OK** to confirm.

Manual Programme Preset
With the ‘Manual Programme Preset’ option highlighted, press ➡ to enter the ‘Manual Programme Preset’ menu. The ‘Manual Programme Preset’ menu is explained on the following page.

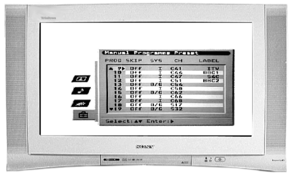
Further Programme Preset
With the ‘Further Programme Preset’ option highlighted, press ➡ to enter the ‘Further Programme Preset’ menu. The ‘Further Programme Preset’ menu is explained on page 28.

RGB Set Up
When viewing signals from RGB equipment connected to the AV1 or AV2 sockets (e.g. DVD player, PlayStation) the picture may need adjusting. The ‘RGB Set Up’ option in the ‘Manual Set Up’ menu allows you to adjust the size and horizontal picture position of signals from RGB equipment. With the ‘RGB Set Up’ option highlighted, press ➡ to enter the ‘RGB Set Up’ menu. Press ➡ to select H Centre. Press ⬇ or ⬆ to centralise the picture over a range of -10 to +10. Press **OK** to store. Press ⬇ to select H Size. Press ⬇ or ⬆ to adjust the picture size over a range of -10 to +10. Press **OK** to store.

Note: If there is no RGB equipment connected to either the AV1 or AV2 scart sockets the ‘RGB Set Up’ option will not be available.

Picture Rotation
Due to the Earth’s natural magnetism the picture might slant slightly. The ‘Picture Rotation’ option in the ‘Manual Set Up’ menu allows you to cancel out this effect. With the ‘Picture Rotation’ option highlighted, press ➡ to select. Press ⬇ or ⬆ to rotate the picture over a range of -5 to +5. Press **OK** to store.

Personal ID
The ‘Personal ID’ option in the ‘Manual Set Up’ menu allows you to enter a code which could help to trace you should the TV be stolen and recovered. This code can only be entered once - please make a note of it and keep it safe. With the ‘Personal ID’ option highlighted, press ➡ to select. Press ⬇ or ⬆ to display the first character of the code you wish to use. Press ➡ to select. Repeat until all characters have been entered. Press **OK** to store. A confirmation screen is displayed. Press **OK** to confirm.



1
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GUIDE
VTR
TV
DVD
OK
PROG

Manual Programme Preset menu
(for analogue channels only)

To check which mode you are in, press the ⓘ button on the remote control. If you are watching a digital programme, an Info display appears on screen providing brief details for the current and next programme. If this happens, press the **DIGITAL/** ▢ button on the remote control to switch to analogue channels.

The 'Manual Programme Preset' option in the 'Manual Set Up' menu allows you to manually tune in channels. With the 'Manual Programme Preset' option highlighted, press → to enter the 'Manual Programme Preset' menu. Press ↓ or ↑ to highlight the channel you wish to tune. Press → twice to select the SYS column. Press ↓ or ↑ to select the TV broadcast system (Choose I for TV broadcasts or EXT for an external input source). Press → to confirm and select the CH column. Press ↓ or ↑ to select the channel tuning (C for terrestrial channels, S for cable channels or F for direct frequency input). Press → to confirm. You now need to tune the channel by one of the following methods:

(a) If you know the channel number of the TV broadcast, the VCR test signal or the frequency:
Press the **numbered** buttons on the remote control to enter the channel number.
Press **OK** to store.

(b) If you do not know the channel number:
Press ↓ to select SEARCH. The TV set automatically searches for the next available TV broadcast channel or the VCR test signal. When a channel has been found press either **OK** to store or ↓ to continue searching.

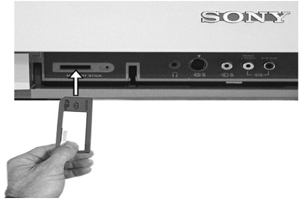
(c) For external input sources (EXT):
Press ↓ to select AV1, AV2, AV3, or AV4 depending on which socket you have connected your equipment to. Press **OK** to store.

Naming a channel
Names for channels are usually taken automatically from Teletext (if available). This name is displayed briefly on screen when the channel is selected. The 'LABEL' option in the 'Manual Programme Preset' menu allows you to assign a name of your choice up to 5 characters or numbers. With the 'Manual Programme Preset' option highlighted, press → to enter the 'Manual Programme Preset' menu. Press ↓ or ↑ to highlight the channel number you require. Press → repeatedly to select the LABEL column. Press ↓ or ↑ to select the first character. Press → to confirm this character. Select the other characters in the same way. After selecting all required characters, press **OK** to store.

Skipping a channel
The 'SKIP' option in the 'Manual Programme Preset' menu allows you to skip unused channel positions when selecting channels with the **PROG+/-** buttons. However, you can still select skipped channels by using the **numbered** buttons on the remote control. With the 'Manual Programme Preset' option highlighted, press → to enter the 'Manual Programme Preset' menu. Press ↓ or ↑ to highlight the channel number you require. Press → to select the SKIP column. Press ↓ to select On (select Off to remove the SKIP feature). Press **OK** to store.

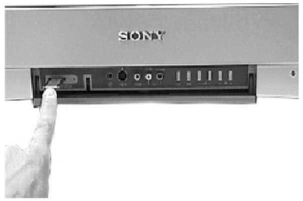
Viewing Memory Stick pictures

A 'Memory Stick'* is a new recording medium with a data capacity that exceeds a floppy disk. It is specially designed for exchanging and sharing digital data among 'Memory Stick' compatible products. Use 'Memory Stick' to display JPEG pictures (DCF version 1.0 format)** individually or as a slideshow presentation on the TV screen. Because it is removable, 'Memory Stick' can also be used for external data storage.



Inserting a 'Memory Stick'

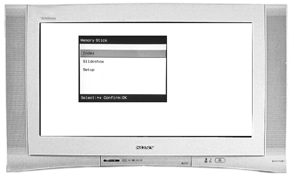
Insert a memory stick into the front control panel of the TV set until it clicks into the connector. The ▲ symbol must be facing forwards. The red light flashes indicating that the memory stick contents are being read.



Removing a 'Memory Stick'

Confirm that the red light is off. **Do not pull** the memory stick. You must push the memory stick and then release. The memory stick will spring out.

Note:
* Data stored on a 'Memory Stick' may become damaged or erased if you remove the 'Memory Stick' when it is reading or writing data.



DIGITAL
MEMORY STICK
1
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GUIDE
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TV
DVD
INDEX

The 'Memory Stick' menu

The 'Memory Stick' menu is displayed automatically when you insert the memory stick into your TV set. Alternatively, if there is a memory stick already inserted, press the **MEMORY STICK** button on the remote control to display the menu screen. There are 3 options available, namely 'Index', 'Slideshow' and 'Setup'.

Notes:
* Memory Stick' and the logo are trademarks of Sony Corporation.
** DCF (Design rules for Camera File systems) is a standard file name format for digital still cameras, DV camcorders etc. It is supported by SONY and other manufacturers.

Memory Stick Index
Back
Page +
Page 1/3
Select: Confirm:OK

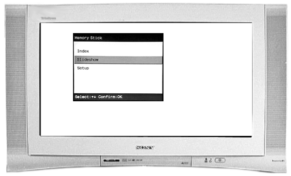
DIGITAL/
MEMORY STICK
GUIDE
VTR
TV
DVD
OK

Index

This feature enables you to view on screen the JPEG DCF format pictures from your memory stick.

1. Press the **MEMORY STICK** button on the remote control to display the 'Memory Stick' menu on the TV screen.
2. Press the ↑ or ↓ button to highlight 'Index' then press the **OK** button to display the 'Memory Stick Index' screen.
3. Press the ↓, ↑, ← or → buttons to highlight the required picture, then press the **OK** button to display the picture fully on the TV screen.

   Note: Only a limited number of pictures can be displayed on the Index screen at one time. If your required picture is not visible, highlight 'Page +' then press the **OK** button to view the next set of pictures. Press the ↓, ↑, ← or → buttons to select your desired picture then press the **OK** button to view.
4. Use the ↓, ↑, ← or → buttons to highlight 'Back'. Press the **OK** button to return to the 'Memory Stick' menu or press the **DIGITAL/▭** button at any time to return to normal TV operation.



DIGITAL/
MEMORY STICK
GUIDE
VTR
TV
DVD
OK

Slideshow

This feature allows you to display all the memory stick pictures as a slideshow presentation on the TV screen.

1. Press the **MEMORY STICK** button on your remote control to display the 'Memory Stick' menu on the TV screen.
2. Press the ↑ or ↓ button to highlight Slideshow.
3. Press the **OK** button to start the slideshow. (To change the length of time an image is displayed refer to the 'Setup' section on the following page.)
4. Press the **OK** button during the slideshow to return to the 'Memory Stick' menu. Press the **DIGITAL/▭** button to return to normal TV operation.

Remote control operation for VCR and DVD players

This remote control has been configured to operate not only Sony DVDs and VCRs but also those made by other manufacturers. To operate other makes of DVD and VCR using this remote control, complete the following procedure:

MEMORY STICK
GUIDE
VTR
TV
DVD
MODE
OK
MENU
PROG

1. Find the 3 digit code for your brand from the list below. If your brand has more than one code allocated to it, make a note of the first code only at this stage.
2. Press the **MODE** button on the remote control until either the VCR green light or the DVD green light is illuminated.
3. With the required green light illuminated, press and hold down the **YELLOW** button for approximately 6 seconds, until the light starts to flash.
4. Using the **numbered** buttons, enter the 3 digit code for your DVD or VCR. Once a correct number has been entered, all three green lights will illuminate momentarily.
5. Turn on your DVD or VCR and check that the remote control operates the main functions. If not, repeat steps 2 - 4 and enter the next 3 digit code allocated to your brand of VCR or DVD.
6. When you wish to use the remote control to operate the TV again, press the **MODE** button until the TV green light illuminates. Don't forget to select VCR or DVD using the **MODE** button every time you wish to operate that equipment with this remote control.

Note: The brand codes you set may be lost if weak batteries are not replaced immediately. Should this happen, use the above procedure to reset the code. A small label has been attached to the inside of the battery cover for you to make a note of your brand codes.
Not all brands and models of DVDs or VCRs are covered in this list. However, Sony will endeavour to update the software periodically, so please refer to the code table provided with your remote control.

VCR Brand List		DVD Brand List	
Brand	Code	Brand	Code
SONY (VHS)	301, 302, 303, 309	SONY	001
SONY (BETA)	301, 302, 303, 309	AIWA	021
SONY (DVD)	304, 305, 306	DENON	018, 027, 020, 002
AIWA	325, 331, 351	GRUNDIG	009, 028, 023, 024, 016. 003
AKAI	326, 329, 330	HITACHI	025, 026, 015, 004
DAEWOO	342, 343	JVC	006, 017
GRUNDIG	358, 355, 360, 361, 320, 351	KENWOOD	008
HITACHI	327, 333, 334	LG	015, 014
JVC	314, 315, 322, 344, 352, 353,	LOEWE	009, 028, 023, 024, 016. 003
LG	332, 338	MATSUI	013, 016
LOEWE	358, 355, 360, 361, 320, 351	ONKYO	022
MATSUI	356, 357	PANASONIC	018, 027, 020, 002
ORION	328	PHILIPS	009, 028, 023, 024, 016. 003
PANASONIC	321, 323	PIONEER	004
PHILIPS	311, 312, 313, 316, 317, 318,	SAMSUNG	011, 014
SAMSUNG	339, 340, 341, 345	SANYO	007
SANYO	335, 336	SHARP	019, 027
SHARP	324	THOMSON	012
THOMSON	319, 350	TOSHIBA	003
TOSHIBA	337	YAMAHA	018, 027, 020, 002

Specifications

TV System	I/DVB-T	
Colour System	PAL NTSC 3.58, 4.43 (only Video In) MPEG-2 MP@ML	
Channel Coverage	UHF:	B21 - B69
Picture Tube	KV-32NX200	FD Trinitron Approx. 82cm
	KV-36NX200	FD Trinitron Approx. 91cm
Sound Output	Left/Right:	2x20W (music power), 2x10W (RMS)
	Subwoofer	1x30W (music power), 1x15W (RMS)
Power Consumption	KV-32NX200	154W (1w standby)
	KV-36NX200	182W (1w standby)
Dimensions (w x h x d)	KV-32NX200	Approx. 910 x 445.5 x 590mm
	KV-36NX200	Approx. 1010 x 645 x 607mm
Weight	KV-32NX200	Approx. 67kg
	KV-36NX200	Approx. 87kg
Rear Terminals	⊟1	21-pin Euro connector (CENELEC standard) including audio/video input, RGB input, TV audio/video output.
	⊟2	21-pin Euro connector (CENELEC standard) including audio/video input, RGB input, TV audio/video output
	⊖3/⊜3	21-pin Euro connector (CENELEC standard) including audio/video input, S-video input, selectable audio/video output.
	⚠	Conditional Access Module
	⫪	RF In
	⊖	Audio output - RCA phono jacks
Front Terminals	⊕4	Video input - phono jack
	⊜4	S video input - 4 pin DIN
	⊖4	Audio inputs - phono jacks
	☊	Headphones jack - minijack stereo
Accessories Supplied	RM-939 remote control (1) IEC designated size AA (R6) battery (2) RF Loopthrough cable	

Design and specification are subject to change without notice

Troubleshooting

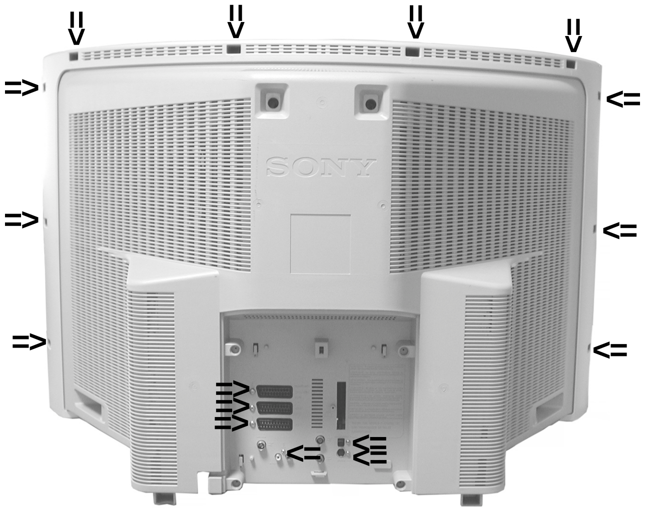
Here are some simple solutions to problems which may affect the picture and sound.

Problem	Possible causes	Solutions
No picture, no sound.	• Power off • TV in standby.	• Plug in the TV • Press the ⓘ button on the front of the TV. If the ⏻ indicator is on press the I/⏻ button on the remote control.
	• Aerial disconnected.	• Check aerial connection
Poor or no picture (screen is dark), but good sound.	• Picture preset level adjustment	• Select 'Picture Adjustment' menu then adjust adjust the brightness, picture and colour levels.
No picture on any channel after digital tuning.	• No digtal transmission in your area.	• Tune in all the Analogue channels available using the 'Manually tuning analogue signals' instructions of this manual to tune in available analogue channels, then contact local installer to find out when digital transmissions begin in your area.
	• No digital transmissions from the transmitter you are currently using. • Unsuitable aerial.	• Contact a local installer to find out which transmitter you should be pointing your aerial at. • Change your aerial to cover the channels used by digital programmes. • Ensure aerial is correctly aligned to transmitter.
	• Weak signal.	• Ensure aerial is is plugged directly into the TV (not through other equipment). • Upgrade to a higher gain aerial.
Some channels are blank.	• Scrambled or subscription-only channel.	• Subscribe to pay-per-view broadcaster.
	• Programme used only for data (no picture or sound).	• See 'Skipping a programme' section. • See 'Re-arranging your channels' section.
	• Programme not being transmitted.	
Standby indicator flashing.	• Fault (irregular flash)	• Do not open the cabinet, refer to qualified personnel. • Contact nearest SONY Service Centre.
	• Digital mode Timer Record active (regular flash).	• Will clear when Timer Recording stops.
Good picture, no sound	• Volume control.	• Press the ◿ + button on the remote control. • If 🔇 is displayed on the screen, press the 🔇 button on the remote control.
Poor picture quality	• Wrong external mode selected for an RGB video source.	• Press the ⊕ button repeatedly until the RGB symbol ⊟ is displayed on screen.
No colour on colour programmes	• Colour level setting.	• Select 'Picture Adjustment' menu then adjust the colour setting.
Remote control does not function	• Batteries low.	• Replace batteries.
Distorted picture when changing programmes or selecting teletext	• Inputs from external equipment not switched off.	• Switch off all additionally connected equipment.

- **If you continue to have these problems, have your TV serviced by qualified personnel or you can contact the Sony UK Digital HelpLine on 0870 600 1717.**
- **NEVER open the casing yourself.**

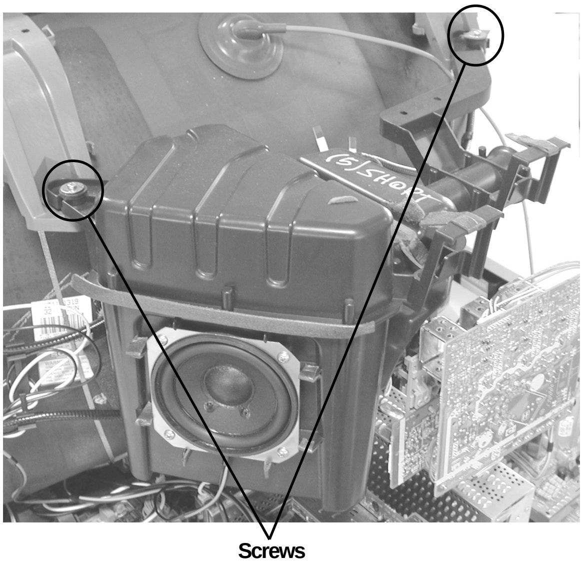
SECTION 2 DISASSEMBLY

2-1. Rear Cover Removal



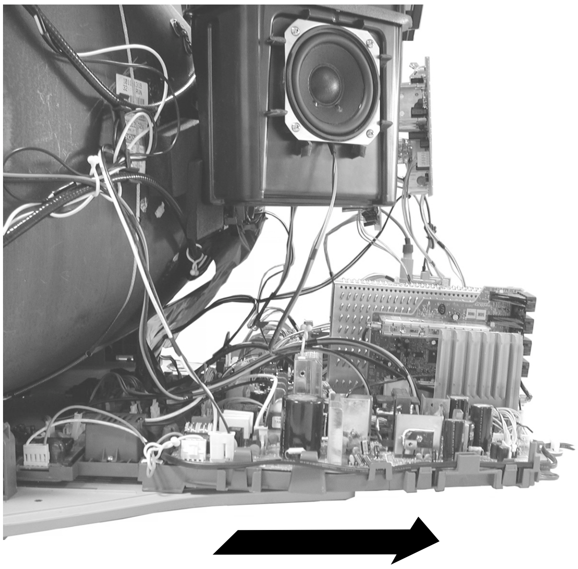
Remove the rear cover fixing screws indicated and pull the rear cover backwards away from the set.

2-2. Speaker Box Removal

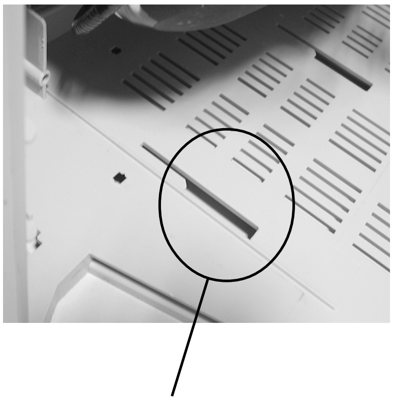


To remove the speaker box assembly remove the two screws circled and unplug the speaker lead from connector CN1202 on the ‘A’ board. The assembly can then be lifted gently away from its supporting arms.

2-3. Chassis Removal and Refitting

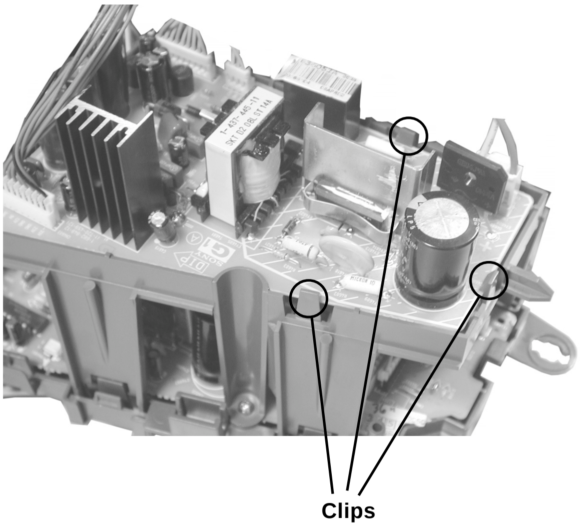


To remove lift the main bracket rear slightly and slide the chassis away from the beznet. Ensure that the interconnecting leads are released from their purse locks to prevent damage being caused.



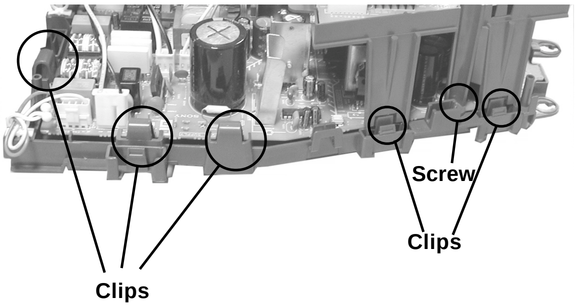
When refitting the chassis ensure that the main bracket is located in the beznet guide slots before sliding the chassis forwards. Refit the inter-connecting leads in their respective purse locks.

2-4. G1 Board Removal



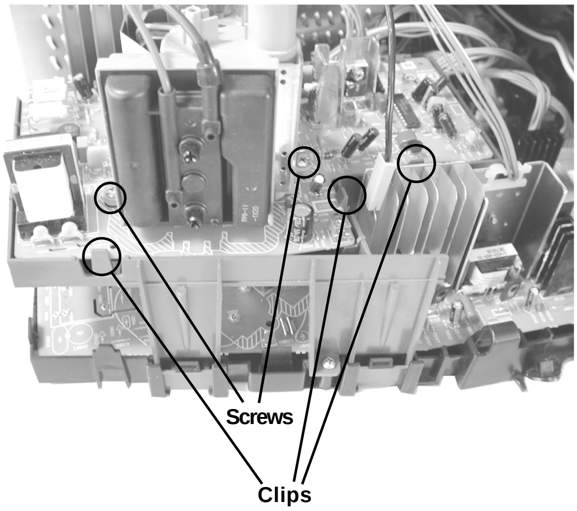
To remove the G1 board release the three clips circled and ease the board gently away from the support bracket.

2-5. G Board Removal



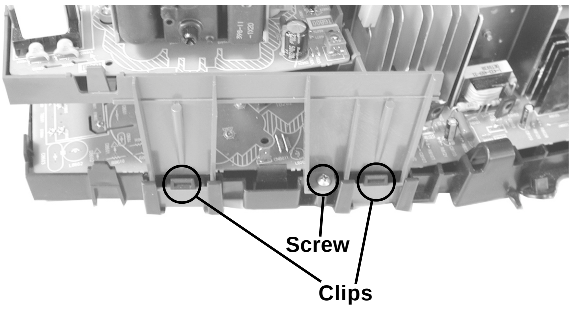
To remove the G Board first remove the G1 bracket by removing the screw circled and releasing the four clips (two on each side of the bracket).
The G Board can the be removed by releasing the clips circled and easing the board gently away from the support bracket.

2-6. D2 Board Removal



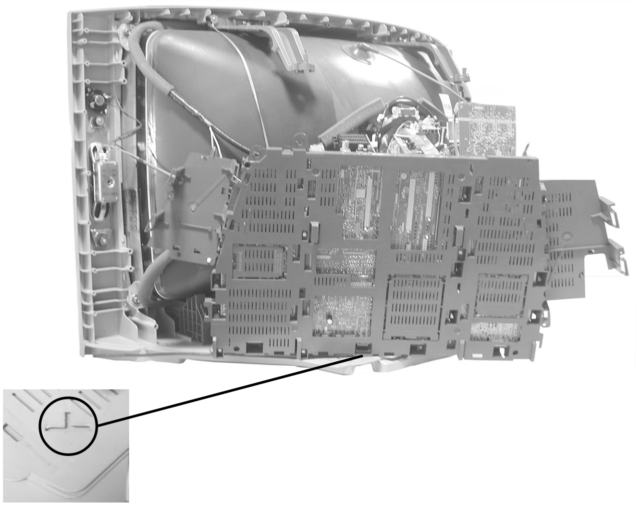
To remove the D2 board remove the two screws circled, release the clips circled and ease the board gently away from the support bracket.

2-7. D1 Board Removal



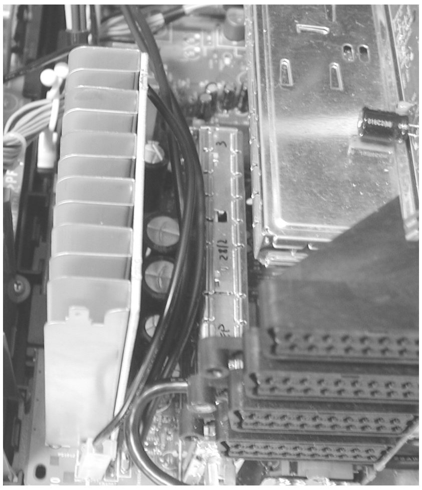
To remove the D1 board first remove the D2 bracket by removing the two screws (one on each side of the bracket) and releasing the four clips (two on each side of the bracket). The D1 board can then be removed using the same method as the G board.

2-8. Service Position



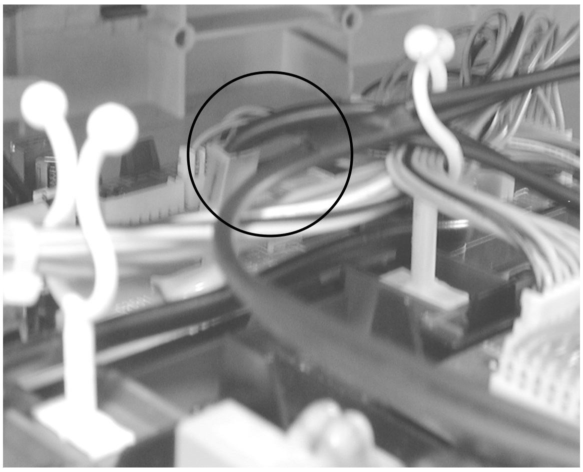
To place the chassis in the service position, remove the speaker assembly box (see 2-2.), remove the G1 and D2 brackets and position on the side of the main bracket as shown above. Insert the main bracket firmly into the T-slot located on the left corner of the beznet as indicated (see inset). To gain access to the underside of the boards follow the instructions on page 19. [Removal and Replacement of the main bracket bottom plates].

2-9. Wire Dressing 1



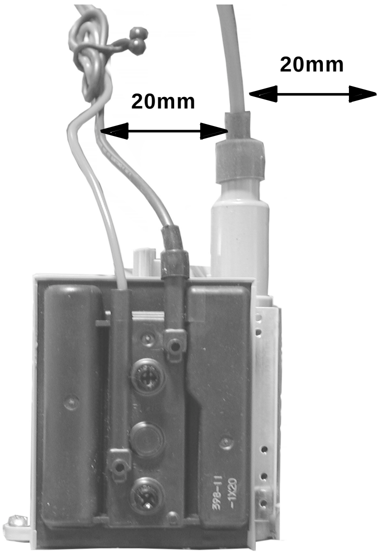
To avoid damage to the ground interconnecting leads from the sharp edges of the heatsink they must be dressed as shown above between the rear of the heatsink and the tuner.

2-10. Wire Dressing 2



The sheathed end of the ground connecting lead must be plugged into the F3 board to avoid the possibility of the AC mains power touching ground.

2-11. Wire Dressing 3

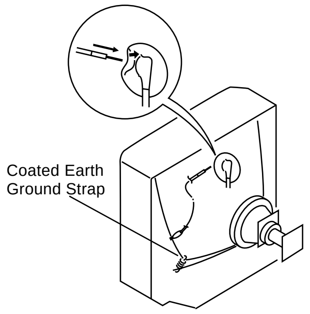


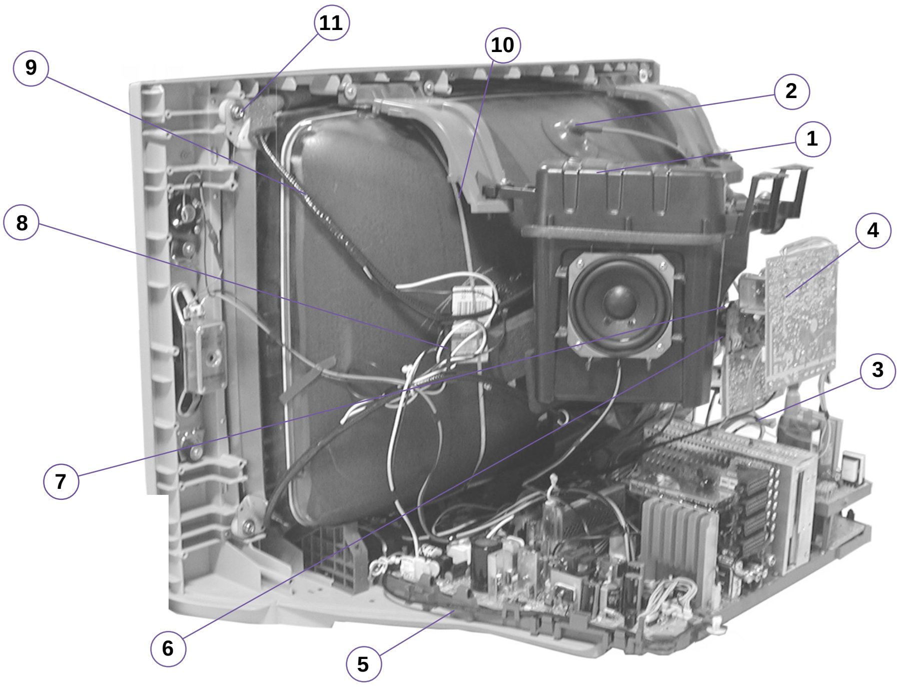
Ensure that wires do not touch heatsinks and high temperature hotspots. All wires must be kept at a minimum distance of 20mm away from the EHT lead

2-12. Picture Tube Removal

WARNING:
BEFORE REMOVING
THE ANODE CAP

High voltage remains in the CRT even after the power is disconnected. To avoid electric shock, discharge CRT ***before*** attempting to remove the anode cap. Short between anode and CRT coated earth ground strap.

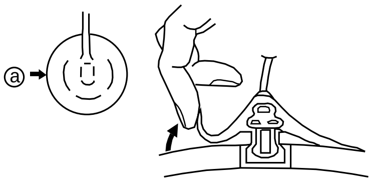




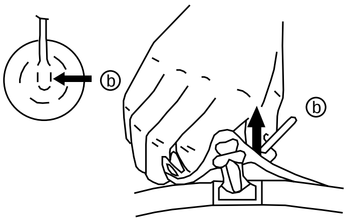
1. Remove Speaker Box assembly.
2. Discharge the anode of the CRT and remove the anode cap.
3. Unplug all interconnecting leads from the Deflection yoke, neck assy, degaussing coils and CRT grounding strap.
4. Remove the C1 Board from the CRT.
5. Remove the chassis assembly.
6. Loosen the Neck assembly fixing screw and remove.
7. Loosen the Deflection yoke fixing screw and remove.
8. Place the set with the CRT face down on a cushion and remove the Degaussing Coil holders.
9. Remove the Degaussing Coils.
10. Remove the CRT grounding strap and spring tensioners.
11. Unscrew the four CRT fixing screws [located on each CRT corner] and remove the CRT.
    [Take care not to handle the CRT by the neck.]

Removal of the Anode-Cap

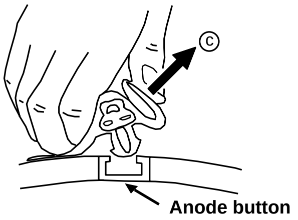
REMOVAL PROCEDURE.



① Turn up one side of the rubber cap in the direction indicated by the arrow ⓐ



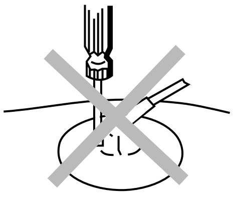
② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⓑ

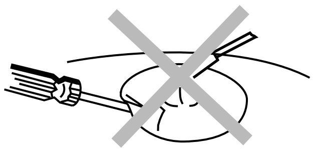


③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow ⓒ

How to handle the Anode-Cap

1. To prevent damaging the surface of the anode-cap do not use sharp materials.
2. Do not apply too great a pressure on the rubber, as this may cause damage to the anode connector.
3. A metal fitting called a shatter hook terminal is fitted inside the rubber cap.
4. Do not turn the rubber foot over excessively, this may cause damage if the shatter hook sticks out.



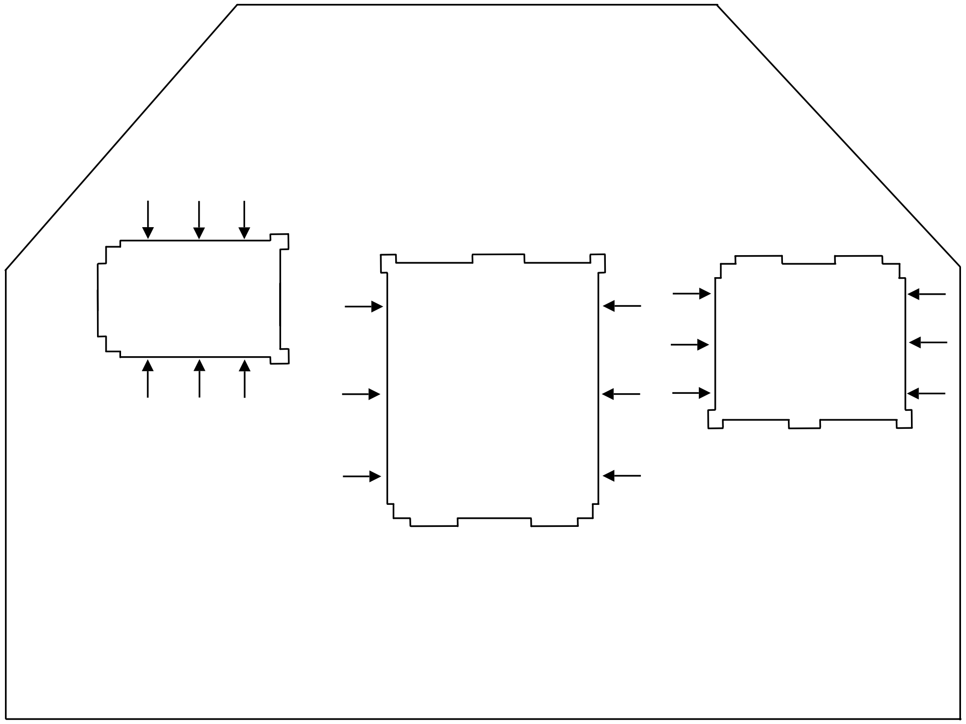


REMOVAL AND REPLACEMENT OF THE MAIN-BRACKET BOTTOM PLATES.

(1) REMOVING THE PLATES

In the event of servicing being required to the solder side of the A, D1 or G printed wiring boards, the bottom plates fitted to the main chassis bracket require to be removed.
This is performed by cutting the gates with a sharp wire cutter at the locations indicated by the arrows.

Note : There are 3 plates fitted to the main bracket and secured by 3 gates.
Only remove the necessary plate to gain access to the printed wiring board.

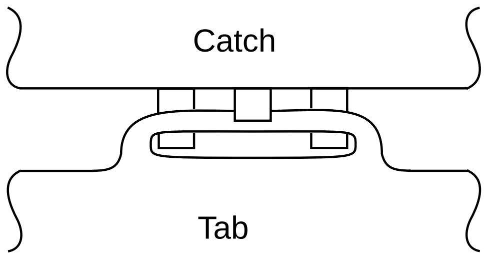


⚠ **For safety reasons, on no account should the plates be removed and not refitted after servicing.**

(2) REFITTING THE PLATES

Because the plates differ in size it is important that the correct plates are refitted in their original location.

Please note that the plates need to be rotated 180 degrees from their cut position to allow the tabs to be fitted into their catch positions.



SECTION 3 SET-UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there are specific instructions to the contrary, carry out these adjustments with the rated power supply.
- Unless there are specific instructions to the contrary, set the controls and switches to the following settings :

Contrast .... normal

Brightness .... normal

Carry out the adjustments in the following order :

3-1. Beam Landing and Geometry.
3-2. Convergence.
3-3. Focus.
3-4. White Balance.

Note : Test equipment required.

1. Color bar/pattern generator.
2. Degausser.
3. Oscilloscope.
4. Digital multimeter.

3-1. Beam Landing

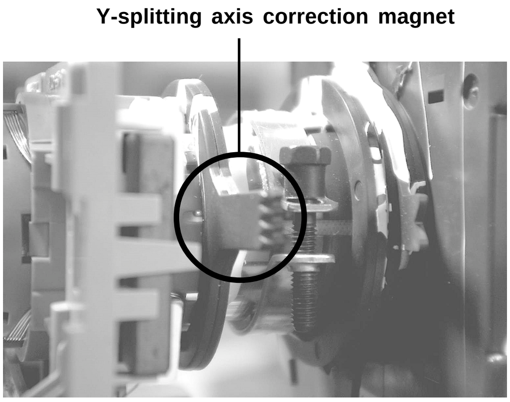
Preparation :

1. In order to reduce the influence of geomagnetism on the set's picture tube, face it in an easterly or westerly direction.
2. Switch on the TV set's power and degauss with a degausser.

(1) Adjustment of Correction Magnet for Y-Splitting Axis.

1. Input a crosshatch signal from the pattern generator.
2. Set the Picture control to minimum and confirm that the Brightness control is set to normal.
3. Position the neck assembly as indicated in Fig.3-3.
4. Loosen the deflection yoke fixing screw.
5. Move the deflection yoke as far forward as is possible.
6. Adjust the upper and lower pin symmetrically by opening or closing the Y-splitting axis correction magnets located on the neck assembly. [See Fig 3-2]
7. Return the deflection yoke to its original position and re-tighten its fixing screw.

Fig.3-1



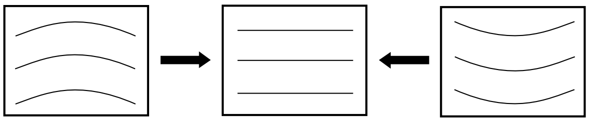


Fig.3-2

Caution :
High voltages are present on the Deflection yoke terminals - take care when handling the Deflection yoke whilst carrying out adjustments.

(2) Landing and Geometry

Note : Before carrying out the following adjustments adjust the magnets as indicated on page 21 [See Fig.3-4].

1. Input a crosshatch signal from the signal generator.
2. Rough-adjust the focus and horizontal convergence.
3. Switch from the crosshatch pattern to an all-red pattern.
4. Move the deflection yoke backwards and adjust with the purity magnet so that the red is at the centre and it aligns symmetrically [See Fig.3-5].
5. Move the deflection yoke forward to the point where the entire screen just becomes red [Mark its position].
6. Move the deflection yoke further forward until the screen just changes colour at the edges. [Mark its position].
7. Position the deflection yoke between the two marks indicated above.
8. Input a crosshatch pattern from the pattern generator and rotate the deflection yoke so that the horizontal lines are parallel with the top and bottom of the screen.
9. When the position of the deflection yoke has been determined, fasten it with its fixing screw.
10. Once dy rotation and swing left and right for h linearity is ok on cross hatch pattern, insert dy wedges. [See Fig.3-6].
11. Switch the pattern generator to green then blue and confirm the purity.
12. If the beam does not land correctly in all the corners of the screen, use disk magnets to correct it. [Confirm the corner landing for green and blue].
13. Re-check geometry for landing magnet effect. Adjust using deflection menu. [TT Mode].

Fig.3-3

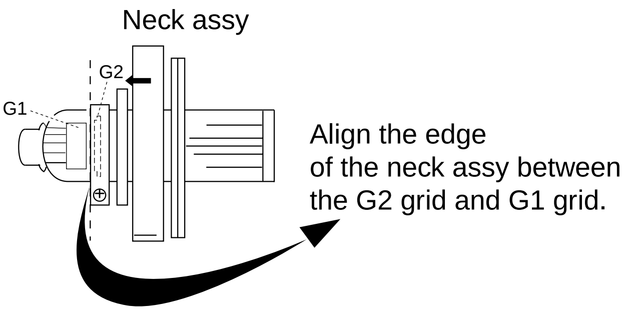
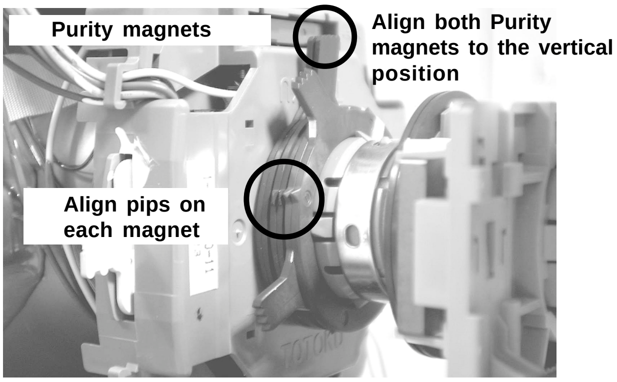


Fig.3-4


Purity magnets
Align both Purity magnets to the vertical position
Align pips on each magnet

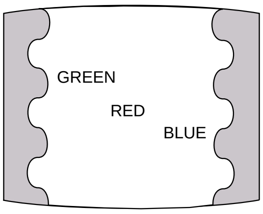

GREEN
RED
BLUE

Fig.3-5

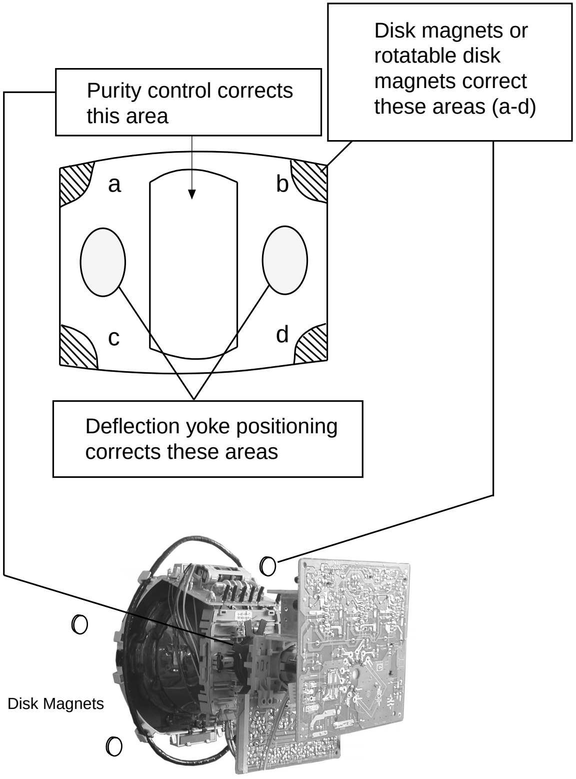
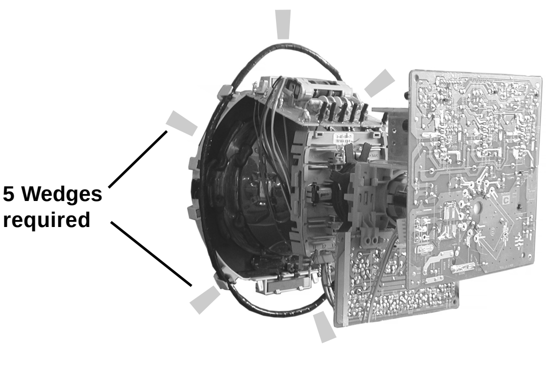
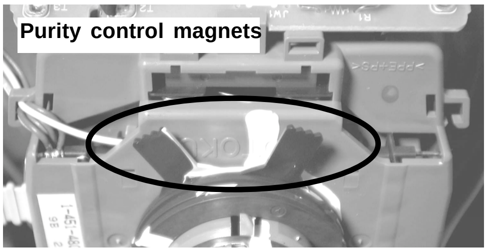

Purity control corrects this area
Disk magnets or rotatable disk magnets correct these areas (a-d)
a
b
c
d
Deflection yoke positioning corrects these areas
Disk Magnets

Fig.3-6

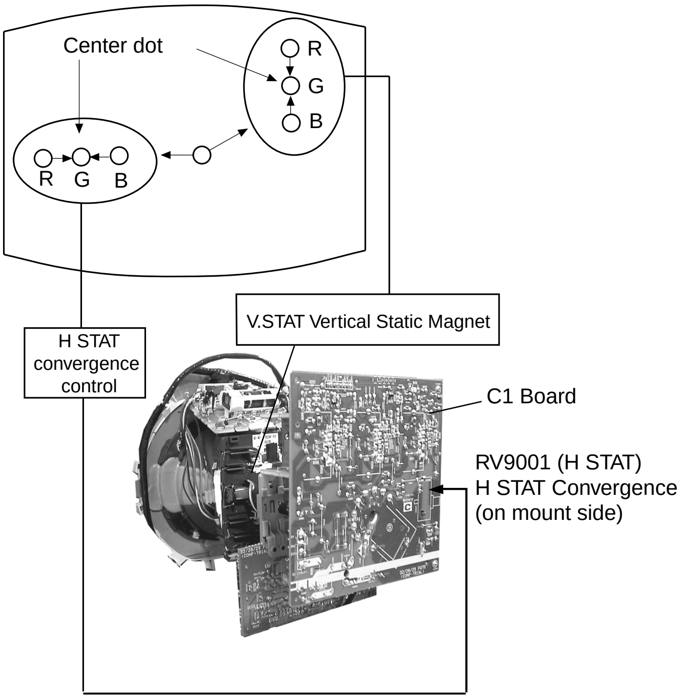

5 Wedges required


Purity control magnets

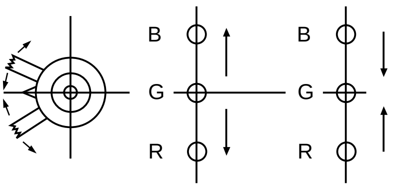
3-2. Convergence

(1) Screen centre convergence [Static convergence]

1. Input a dot pattern signal from the pattern generator.
2. Normalize the picture setting.
3. [Moving vertically], adjust the V.STAT magnet so that the vertical red, green and blue dots coincide at the centre of the screen.


Center dot
R
G
B
R G B
V.STAT Vertical Static Magnet
H STAT convergence control
C1 Board
RV9001 (H STAT)
H STAT Convergence
(on mount side)

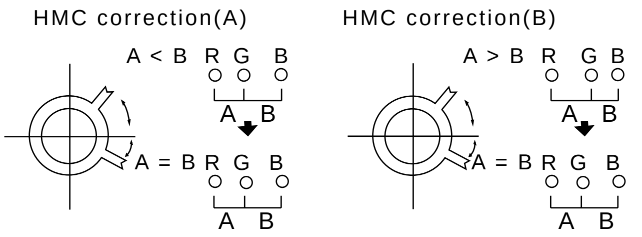
By opening or closing the V.STAT magnet, the red green and blue dots move in the direction indicated below.



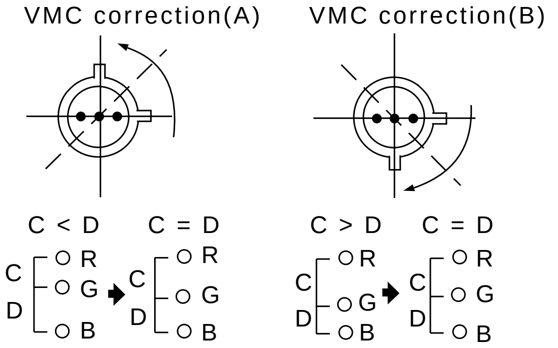
Note: Do not adjust the H.STAT by rotating the V.STAT magnets as this can affect the focus setting.

4. Correction for HMC [Horizontal mis-convergence] and VMC [Vertical mis-convergence] by using the BMC [Hexapole] magnet.

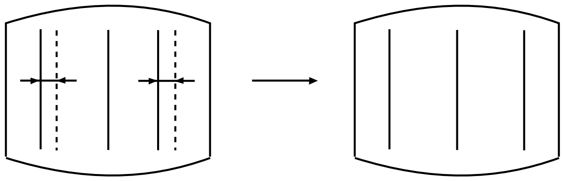
a). HMC correction by BMC [Hexapole] magnet and movement of the electron beam.


HMC correction(A)
A < B R G B
A B
A = B R G B
A B
HMC correction(B)
A > B R G B
A B
A = B R G B
A B

b). VMC correction by BMC [Hexapole] magnet and movement of the electron beam.

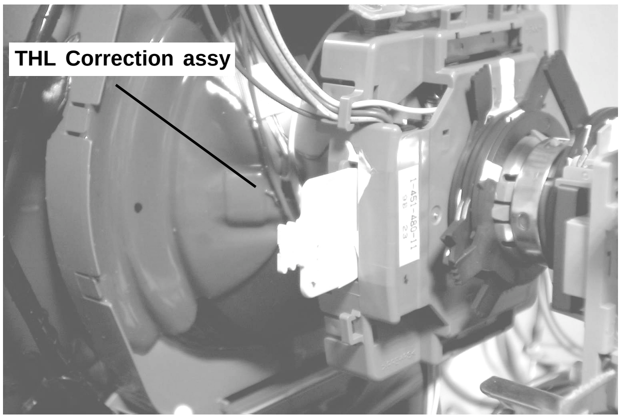

VMC correction(A)
VMC correction(B)
C < D
C = D
C > D
C = D
C
D
R
G
B

HAMP Adjustment

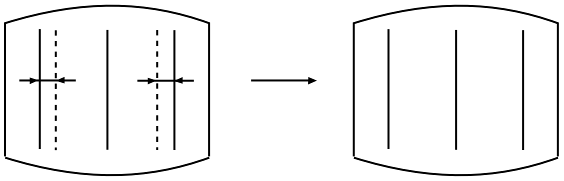


Adjust the HAMP using HAMPL and HAMPR registers in the Dynamic Convergence section of the service menu.

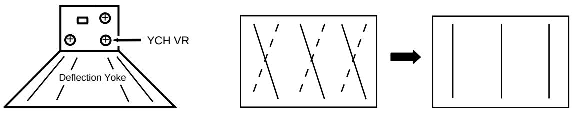
HTIL Adjustment


THL Correction assy

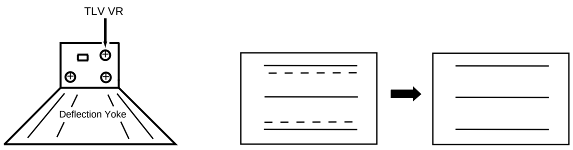
HTIL correction can be performed by adding a THL correction assembly to the Deflection yoke.



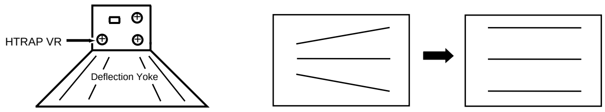
YCH Adjustment


YCH VR
Deflection Yoke

TLV Adjustment

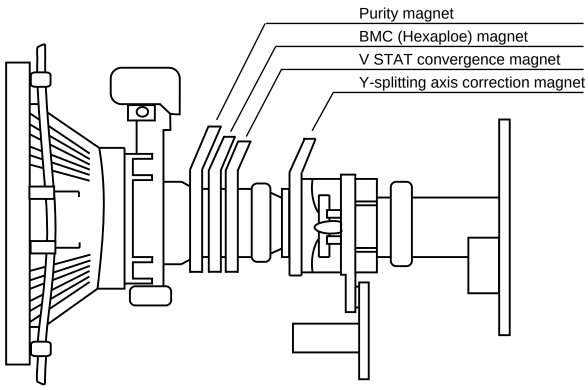

TLV VR
Deflection Yoke

H-TRAP Adjustment

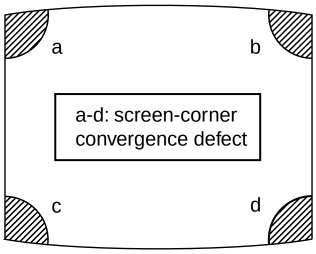

HTRAP VR
Deflection Yoke

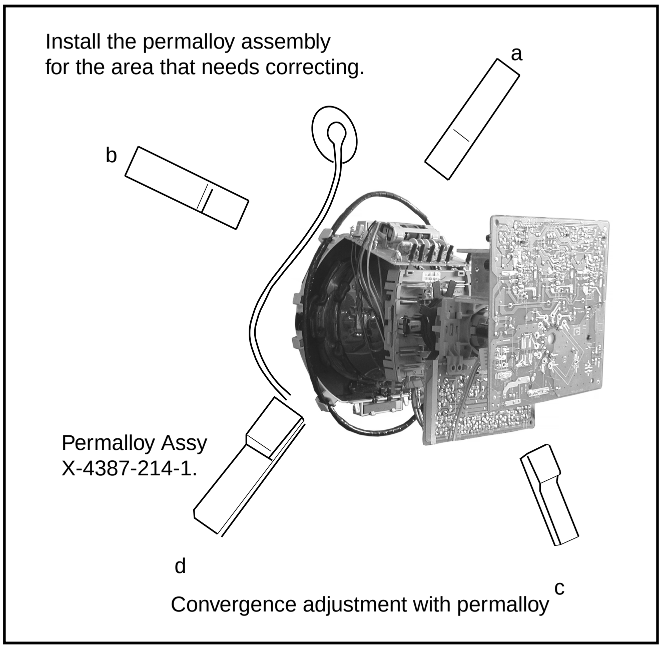
The H-TRAP should not be adjusted unless absolutely necessary as it affects the TLV settings.

Layout of each control



Note : If you are unable to adjust the corner convergence properly, this can be corrected with the use of permalloy magnets.

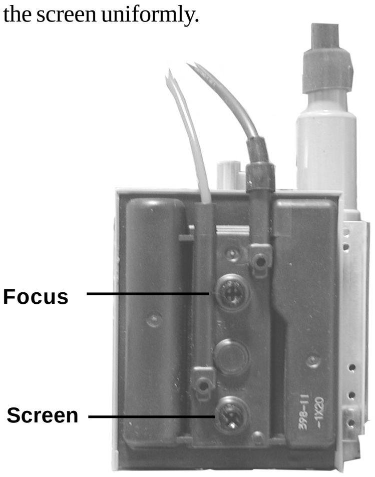



Install the permalloy assembly for the area that needs correcting.

Convergence adjustment with permalloy

3-3. Focus Adjustment

1. Receive a cross hatch pattern from a video generator.
2. Adjust the focus control located on the flyback transformer to the best level at the centre of the screen.
3. Check left and right x-axis vertical line thickness and adjust to make them as thin as possible.
4. Considering x-axis and centre, adjust to make uniform.
5. If no cross hatch signal is possible, follow the next three steps.
6. Receive a television broadcast signal.
7. Normalize the picture setting.
8. Adjust the focus control located on the flyback transformer to obtain the best focus at the centre of the screen.
   Bring only the centre area of the screen into focus, the magenta-ring appears on the screen. In this case, adjust the focus to optimize the screen uniformly.



3-4. Screen (G2), White Balance

[Adjustment in the service mode using the remote commander]

G2 adjustment

1. Input a dot signal from the pattern generator.
2. Set the Picture, Brightness and Colour to minimum.
3. Apply 165V DC from an external power supply to the R, G and B cathodes of the CRT.
4. Whilst watching the picture, adjust the G2 control [SCREEN] located on the flyback transformer to the point just before the flyback return lines disappear.

White balance adjustment for TV mode

1. Input an all-white signal from the pattern generator.
2. Program the Remote Commander for operation in Service Mode. [See Page 24].
3. Enter into the ‘Service Mode’ by pressing ‘VIDEO’ button twice and ‘MENU’ on the Service Commander.
4. Select ‘Device Register Setting’ from the on screen menu display and press ‘Right Arrow’.
5. Select ‘Backend’ from the on screen menu display and press ‘Right Arrow’.
6. Set the ‘Contrast’ to MAX.
7. Set the ‘R-Drive’ to 45.
8. Adjust the ‘G-Drive’ and the ‘B-Drive’ so that the white balance becomes optimum.
9. Press the ‘OK’ button to write the data for each item.
10. Set the ‘Contrast’ to MIN.
11. Set the ‘R-Cutoff’ to 35.
12. Adjust the ‘G-Cutoff’, and the ‘B-Cutoff’ with the left and right buttons on the remote commander so that the white balance becomes optimum.
13. Press the ‘OK’ button to write the data for each item.

SECTION 4 CIRCUIT ADJUSTMENTS

4-1. Electrical Adjustments

Service adjustments to this model can be performed using the supplied remote Commander RM-939.

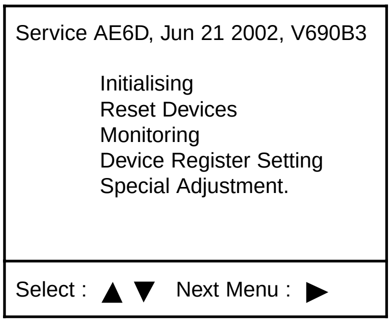
Programming the Remote Commander for Operation in Service Mode

VCR
TV
DVD
INDEX
OK

1. Press the VCR/TV/DVD button until the TV LED lights.
2. Press and hold the yellow button for approx. 5 seconds until the TV LED flashes quickly.
3. Press 99999. All three LED's should light. The remote commander is now set to Service Mode.
4. To return the remote commander to normal operation mode repeat steps 1. and 2. then press 00000. All three LED's should light. The remote commander is now set to normal mode.

Setting the TV into Service Mode

1. Program the remote commander for operation in Service Mode as described above.
2. Turn on the TV main power switch.
3. Press the video standby button on the remote commander twice. 'TT __' will appear in the upper right corner of the screen. Other status information will also be displayed.
4. Press 'MENU' on the remote commander twice to obtain the following menu on the screen.



Service AE6D, Jun 21 2002, V690B3

Initialising
Reset Devices
Monitoring
Device Register Setting
Special Adjustment.

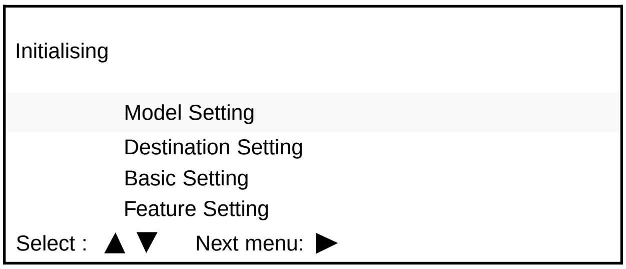
Select : ▲ ▼ Next Menu : ▶

5. Move to the corresponding adjustment item using the up or down arrow buttons on the Remote Commander.
6. Press the right arrow button to enter into the required menu item.
7. Press the 'Menu' button on the Remote Commander to quit the Service Mode when all adjustments have been completed.

Note :

- After carrying out the service adjustments, to prevent the customer accessing the 'Service Menu' switch the TV set OFF and then ON.
- Certain menu items are only available in production mode.

Initialising Menu



Initialising

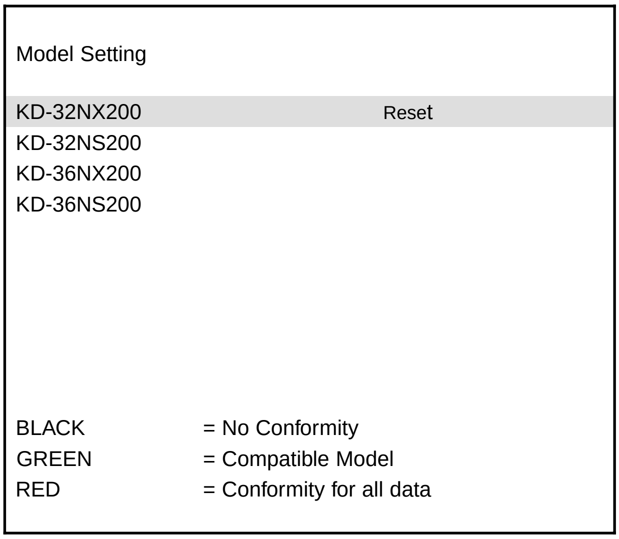
Model Setting
Destination Setting
Basic Setting
Feature Setting

Select : ▲ ▼ Next menu: ▶

Model Setting

The menu contains a list with all the available models of this software to set up the TV set in an easy way. The selection of a model is setting data for its features and hardware resources which cannot be detected by the automatic power on H/W detection as well as a special *model byte* to get an unique model identification for models which cannot be differed by features and hardware resources (e.g. KD-32NS200 and KD-36NX200)

Before data is set, the user will be asked if he really wants to set a new model. If the user agrees, automatically the destination setting menu is shown.



Model Setting

KD-32NX200 Reset
KD-32NS200
KD-36NX200
KD-36NS200

BLACK = No Conformity
GREEN = Compatible Model
RED = Conformity for all data

Table.4-1

Indication of Model Compatibility.

Black:
If any data does not match to specific model, the model name is displayed in black.
Green:
All data which is checked by model setting menu concurs to model except model byte.
Red:
All data which is checked by model setting menu concurs to model including model byte.

Note:
After selecting a model, it may be necessary to reset some devices to get the correct data. (Treble/Bass Offset of Sound, deflection adjustments, ...)

Basic Setting

Basic setting

No	Descr	Min	Max	Data
1	Sys.B/G	OFF	ON	ON
2	Sys.D/K	OFF	ON	ON
3	Sys.L	OFF	ON	OFF
4	Sys.I (UK)	OFF	ON	OFF
5	Sys.I (IRL)	OFF	ON	OFF
6	TXTNat.option	1	4	3
7	16:9 CRT	OFF	ON	OFF
8	Sub-woofer	OFF	ON	ON
9	Auto stand-by	OFF	ON	ON
10	Comb-filter	OFF	ON	ON
11	Auto YC det	OFF	ON	ON
12	Auto comb det	OFF	ON	ON
13	AV2 Available	OFF	ON	ON
14	AV3 Available	OFF	ON	ON
15	AV4 Available	OFF	ON	ON
16	AV5 Available	OFF	ON	ON
17	SECAM Tape	OFF	ON	OFF
18	AV1 Sound Mute	OFF	ON	ON

Table.4-2

Feature Setting

Feature setting

No	Descr	Min	Max	Data
1	PAP	OFF	ON	ON
2	PAT	OFF	ON	ON
3	INDEX	OFF	ON	ON
4	TeleText	OFF	ON	ON
5	EPG	OFF	ON	ON
6	TeleWeb	OFF	ON	OFF

Table.4-3

Device Register Setting

Backend
Deflection
Ext Deflection
Dynamic Convergence
Colour Decoder 1
Audio / Video Switch
Mid - X
External PLL Mid - X
Gate Array Chip
Sound
Digital NR

Table.4-4

Audio / Video Switch

No	Descr	Def	Min	Max	Data
1	CVOUT1	0	0	9	0
2	CVOUT2	2	0	9	0
3	LO0 CTRL	OFF	OFF	ON	OFF
4	LO1 CTRL	OFF	OFF	ON	OFF
5	YCOUT 1	2	0	7	2
6	YCOUT 2	0	0	7	0
7	ZCD SW	OFF	OFF	ON	OFF
8	AOUT3MUTE	OFF	OFF	ON	OFF
9	AOUT 1	3	0	7	3
10	AOUT 2	1	0	7	1
11	GROUP DEL	16	0	31	16
12	AOUT 3	3	0	7	3
13	AOUT3VOLC	4	0	7	4
14	AOUT3VOLF	4	0	7	4
15	AOUT3 L/R	0	0	3	0
16	GD1 SW	ON	OFF	ON	ON
17	GD2 SW	ON	OFF	ON	ON
18	SYNC1	1	0	1	1
19	SYNC2	1	0	1	1
20	SCONT 1	3	2	3	3
21	VIDEO 1	4	0	3	4
22	AUDIO 1	0	0	3	0
23	SCONT 2	2	2	3	2
24	VIDEO 2	4	0	3	4
25	AUDIO 2	0	0	3	0
26	SCONT 3	2	2	3	2
27	VIDEO 3	0	0	3	0
28	AUDIO 3	1	0	3	1

Table.4-5

Dynamic Convergence

No	Descr	Def	Min	Max	Data
1	Range	63	0	63	63
2	V Stat	17	0	63	14
3	H stat	31	0	63	31
4	H amp l	40	0	63	33
5	H amp r	40	0	63	33
6	Up Y	31	0	63	31
7	Low Y	31	0	63	31
8	Y up l	45	0	63	45
9	Y up r	31	0	63	31
10	Y low l	31	0	63	31
11	Y low r	45	0	63	45
12	Mbow up l	31	0	63	31
13	Mbow up r	31	0	63	31
14	Mbow low l	31	0	63	31
15	Mbow low r	31	0	63	31
16	TCorPCtrl	OFF	OFF	ON	OFF
17	TopCorPin	31	0	63	31
18	BCorPCtrl	OFF	OFF	ON	OFF
19	BotCorPin	31	0	63	43

Table.4-6

Colour Decoder 1

No	Descr	Def	Min	Max	Data
1	CLK SEL	0	0	3	0
2	SYS CLK	ON	OFF	ON	ON
3	DSP CLK	3	0	3	3
4	DEL	OFF	OFF	ON	OFF
5	PLL	OFF	OFF	ON	OFF
6	REF CLK	1	0	3	1
7	AD SEL	0	0	3	0
8	DCLP ON	OFF	OFF	ON	OFF
9	CLP OFF	OFF	OFF	ON	OFF
10	COMB SEL	OFF	OFF	ON	OFF
11	AW OFF	OFF	OFF	ON	OFF
12	SYS MODE	0	0	15	0
13	SIG FORM	12	0	15	12
14	CLIP LEV	0	0	3	0
15	Y NR	0	0	3	0
16	C NR	0	0	3	0
17	BLK MODE	2	0	3	2
18	Y LEV	102	0	255	102
19	C LEV	108	0	255	108
20	OSD LEV	0	0	3	0
21	OSD RES	OFF	OFF	ON	OFF
22	SHP COR	0	0	3	0
23	FUP2	1	0	3	1
24	YC DLY ADJ	6	0	15	6
25	A PED	0	0	3	0
26	DC TRAN	0	0	3	0
27	SUB SHP	9	0	15	9
28	Y EQ	3	0	7	3
29	SHP FO	ON	OFF	ON	ON
30	APDATK	0	0	3	0
31	APDHLD	0	0	3	0
32	APDAREA	0	0	3	0
33	APDHIS	0	0	3	0
34	DCTRTC	0	0	3	0
35	DCLP TC	0	0	3	0
36	CLP POS	7	0	15	7
37	C EQ	0	0	3	0
38	C BPF	0	0	3	0
39	CDIF TRAP	OFF	OFF	ON	OFF
40	SSEP TC	OFF	OFF	ON	OFF
41	INT COMB	0	0	3	0
42	SUB HUE	7	0	15	7
43	CLP GR LIN	0	0	3	0
44	CLP ADAP G	OFF	OFF	ON	OFF
45	HS SLICE	0	0	3	0
46	VS SLICE	1	0	3	1
47	STIP TC	1	0	3	1
48	SYNC LPF	ON	OFF	ON	ON
49	SYNC FIL	OFF	OFF	ON	OFF
50	AFC GAIN	1	0	3	1
51	LOW GAIN	1	0	3	1
52	AFC SPDUP	ON	OFF	ON	ON
53	LOW CO	ON	OFF	ON	ON
54	HIGH CO	0	0	3	0
55	CD MODE1	0	0	3	0
56	CD MODE2	OFF	OFF	ON	OFF

Table.4-7

Colour Decoder 1 (cont)

No	Descr	Def	Min	Max	Data
57	CD MODE3	OFF	OFF	ON	OFF
58	HS POS	5	0	15	5
59	NTHRLND	OFF	OFF	ON	OFF
60	SLICE LEV	0	0	31	0
61	UPAREA	OFF	OFF	ON	OFF
62	UPTHIN	OFF	OFF	ON	OFF
63	X149J	OFF	OFF	ON	OFF
64	DM STC	OFF	OFF	ON	OFF
65	IN ST	OFF	OFF	ON	OFF
66	UP R LVL	ON	OFF	ON	ON
67	OFS LVL	OFF	OFF	ON	OFF
68	SLO FST	OFF	OFF	ON	OFF
69	FROM 43	2	0	3	2
70	FROMWIDE	2	0	3	2
71	FR TITLES	2	0	3	2
72	LPF L	ON	OFF	ON	ON
73	AW RESET	OFF	OFF	ON	OFF
74	DTO SLOPE1	0	0	255	0
75	DTO SLOPE2	0	0	255	0
76	DTO SLOPE3	0	0	255	0
77	SETUP CANC	0	0	15	0
78	V INT	7	0	15	7
79	EXT CLP PH	0	0	63	0
80	TEST OUT	OFF	OFF	ON	OFF
81	COL SYSTEM	8	0	15	8
82	RGB MODE	2	0	3	2
83	YSSEL	OFF	OFF	ON	OFF
84	N DET	OFF	OFF	ON	OFF
85	V ENHANCE	4	0	7	4
86	PNR	OFF	OFF	ON	OFF
87	V FREQ	0	0	3	0
88	N COMB	OFF	OFF	ON	OFF
89	AUTO SW	OFF	OFF	ON	OFF
90	SECAM TRAP	OFF	OFF	ON	OFF
91	BELL MODE	OFF	OFF	ON	OFF
92	SECAM KIL	1	0	3	1
93	ID POS	2	0	3	2
94	ID WID	ON	OFF	ON	ON
95	E-COL SYS	OFF	OFF	ON	OFF
96	E-INPUT	OFF	OFF	ON	OFF
97	E-HLOCK	OFF	OFF	ON	OFF
98	E-V FREQ	ON	OFF	ON	ON
99	E-WSS	OFF	OFF	ON	OFF
100	INT RESET	OFF	OFF	ON	OFF
101	SRC2SW	0	0	3	0
102	COMBSW	0	0	3	0
103	RGBSW	OFF	OFF	ON	OFF
104	SECAM BLK	1	0	3	1
105	V ENH LVL	1	0	3	1
106	SCMCDLY	OFF	OFF	ON	OFF
107	SCMID	OFF	OFF	ON	OFF
108	SCMADP	ON	OFF	ON	ON
109	KILL TIME	OFF	OFF	ON	OFF
110	KILL LVL	2	0	3	2
111	KN POS	5	0	7	5
112	KD WID	7	0	15	7

Table.4-8

Digital NR

No	Descr	Def	Min	Max	Data
1	NR Table	0	0	7	0
2	Lcc1	0	0	63	0
3	Lcc2	0	0	63	0
4	Lcc3	0	0	63	0
5	UVLim_Sel	0	0	7	0
6	BNR On	OFF	OFF	ON	ON
7	BNR On YH	OFF	OFF	ON	ON
8	BNR On YV	OFF	OFF	ON	ON
9	BNR On CH	OFF	OFF	ON	ON
10	BNR On CV	OFF	OFF	ON	ON
11	Bit Rate	0	0	3	0
12	B Phase H	0	0	7	7
13	B Phase V	0	0	7	5

Table.4-9

Mid-X

No	Descr	Def	Min	Max	Data
1	M H POS	0	-16	16	0
2	S H POS	0	-8	8	0
3	D YS SEL	1	0	3	1
4	D YS DELAY	7	0	7	7
5	D SYNC MOD	ON	OFF	ON	ON
6	Text Sharp	OFF	OFF	ON	OFF
7	Ext. PLL	OFF	OFF	ON	OFF
8	H Filter	0	0	3	0

Table.4-10

Ext. Deflection

No	Descr	Def	Min	Max	Data
1	DF Phase	185	0	255	185
2	DQP Phase	125	0	255	125
3	Mid Linear	135	0	255	135
4	H Linear	100	0	255	120
5	DQP ac amp	150	0	255	132
6	DQP dc lvl	148	0	255	126
7	H Cent 36"	0	0	255	80

Table.4-11

Backend

No	Descr	Def	Min	Max	Data
1	R-on	ON	OFF	ON	ON
2	G-on	ON	OFF	ON	ON
3	B-on	ON	OFF	ON	ON
4	D-col	0	0	3	0
5	Wb-Sw	OFF	OFF	ON	OFF
6	Gamma-L	OFF	OFF	ON	OFF
7	Contrast	40	0	63	40
8	BLK-Bottom	3	0	3	3
9	Hue	28	0	63	26
10	Colour-Axis	1	0	3	1
11	Colour	31	0	63	31
12	CTI-Level	2	0	3	2
13	Brightness	25	0	63	25
14	S-Abl	0	0	3	0
15	Sharpness	25	0	63	25
16	LTI-Level	0	0	3	0
17	R-Drive	35	0	63	35
18	PLimit	0	0	3	0
19	G-Drive	41	0	63	41
20	ABL-Mode	0	0	3	0
21	B-Drive	41	0	63	41
22	CTI-Mode	0	0	3	0
23	Sub Bright	6	0	63	6
24	Gamma	1	0	3	1
25	R-Cutoff	31	0	63	31
26	LTI-Mode	1	0	3	1
27	G-Cutoff	27	0	63	27
28	DPIC-Level	1	0	3	1
29	B-Cutoff	31	0	63	31
30	DC-Tran	1	0	3	1
31	Sub-Cont	8	0	15	8
32	LRGB2-Lvl	8	0	15	8
33	P-Abl	15	0	15	15
34	ABL-TH	0	0	15	0
35	CB-Off. P	32	0	63	54
36	CR-Off. P	29	0	63	11
37	CB-Off. S	54	0	63	63
38	CR-Off. S	1	0	63	63
39	Aging-W	OFF	OFF	ON	OFF
40	Aging-B	OFF	OFF	ON	OFF
41	System	1	0	3	1
42	Y-offset	7	0	15	7
43	VM-Level	1	0	3	1
44	Sharp. FO	ON	OFF	ON	ON
45	CD-Off	OFF	OFF	ON	OFF
46	Sharp. CD	2	0	3	2
47	Sharp. FI	0	0	3	0
48	Pre/Over	2	0	3	2
49	VM-Cor	0	0	3	0
50	VM-FO	2	0	3	2
51	VM-Limit	3	0	3	3
52	VM-Delay	2	0	3	2
53	Sub Colour	0	-8	8	0

Table.4-12

Deflection System Adjustment

1. Enter into the service mode and select ‘Deflection’ from the menu. The ‘Deflection’ adjustment menu will be displayed.
2. Select and adjust each item to obtain the optimum image.

Deflection

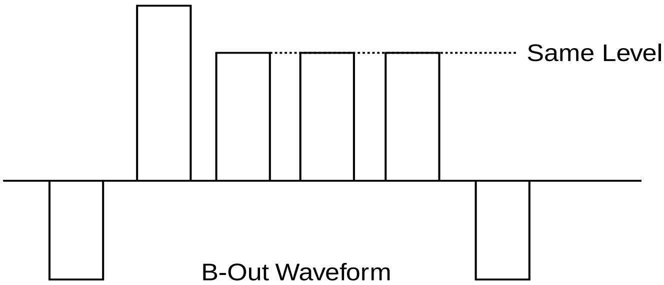
No	Descr	Def	Min	Max	Data
1	H-Size	34	0	63	34
2	H-Position	25	0	63	36
3	V-Size	31	0	63	51
4	V-Position	31	0	63	28
5	Pin-Amp	18	0	63	16
6	Up-CPin	37	0	63	41
7	Lo-CPin	37	0	63	40
8	AFC-Bow	31	0	63	27
9	AFC-Angle	31	0	63	28
10	Pin-Phase	28	0	63	25
11	V-Lin	7	0	15	8
12	S-Corr	8	0	15	12
13	Rotation-1	1	0	3	1
14	Rotation-2	15	0	15	15
15	H-Trap	15	0	31	1
16	H Linear	100	0	255	120
17	HC-Par-Amp	38	0	63	36
18	MP-Par-Amp	9	0	15	7
19	UpPin Axis	2	0	3	3
20	LoPin Axis	2	0	3	3
21	UpPin Gain	1	0	3	3
22	LoPin Gain	1	0	3	2
23	Akb-Tim	15	0	31	15
24	BLK-Off	ON	OFF	ON	OFF
25	AKB-Off	OFF	OFF	ON	OFF
26	Up-Blk	4	0	15	0
27	Lo-Blk	9	0	15	0
28	V-On	ON	OFF	ON	ON
29	Ew-Dc	OFF	OFF	ON	OFF
30	Uc-Pol	OFF	OFF	ON	OFF
31	Vblk-Sw	ON	OFF	ON	OFF
32	Sync-Phase	0	0	3	0
33	AFC-Mode	2	0	3	2
34	Rst-Sw	OFF	OFF	ON	OFF
35	Left-Blk	52	0	63	52
36	Clp-Phase	3	0	3	3
37	Right-Blk	30	0	63	30
38	Clp-Gate	OFF	OFF	ON	OFF
39	Hblk	ON	OFF	ON	ON
40	V-Aspect	47	0	63	47
41	Zoom-Sw	OFF	OFF	ON	OFF
42	Jmp-Sw	OFF	OFF	ON	OFF
43	V-Scroll	31	0	63	31
44	V-Freq	2	0	3	2
45	Up-Vlin	0	0	15	0
46	Lo-Vlin	0	0	15	0
47	V-Comp	0	0	15	6
48	H-Comp	0	0	15	0
49	VSaw1-Dc	7	0	15	7
50	Pin-Comp	7	0	7	4
51	VSaw1-Amp	0	0	31	0
52	AFC-Comp	0	0	7	0
53	MP-Par-Dc	13	0	15	15
54	HC-Par-Dc	63	0	63	31
55	Asp-Sw	OFF	OFF	ON	OFF
56	VDrv-SW	OFF	OFF	ON	OFF
57	HC-Par-Pha	31	0	63	31

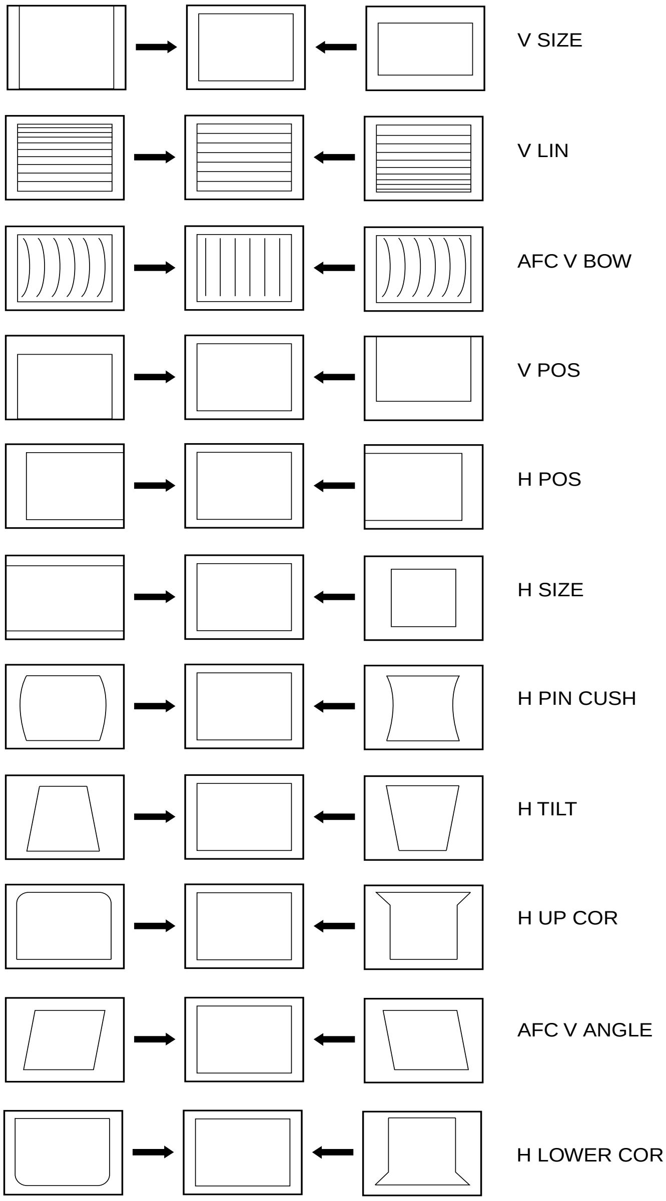
Table.4-13

4-2. Volume Electrical Adjustments

Sub Colour Adjustment

1. Input a PAL colour bar signal.
2. Connect an oscilloscope to CN9001 pin 5 located on the C1 Board.
3. Enter into the ‘Service Mode’.
4. Choose ‘Backend’ from the menu.
5. Adjust ‘Sub Colour’ data so that the right sides of the waveform are of equal height.





4-3. TEST MODE 2:

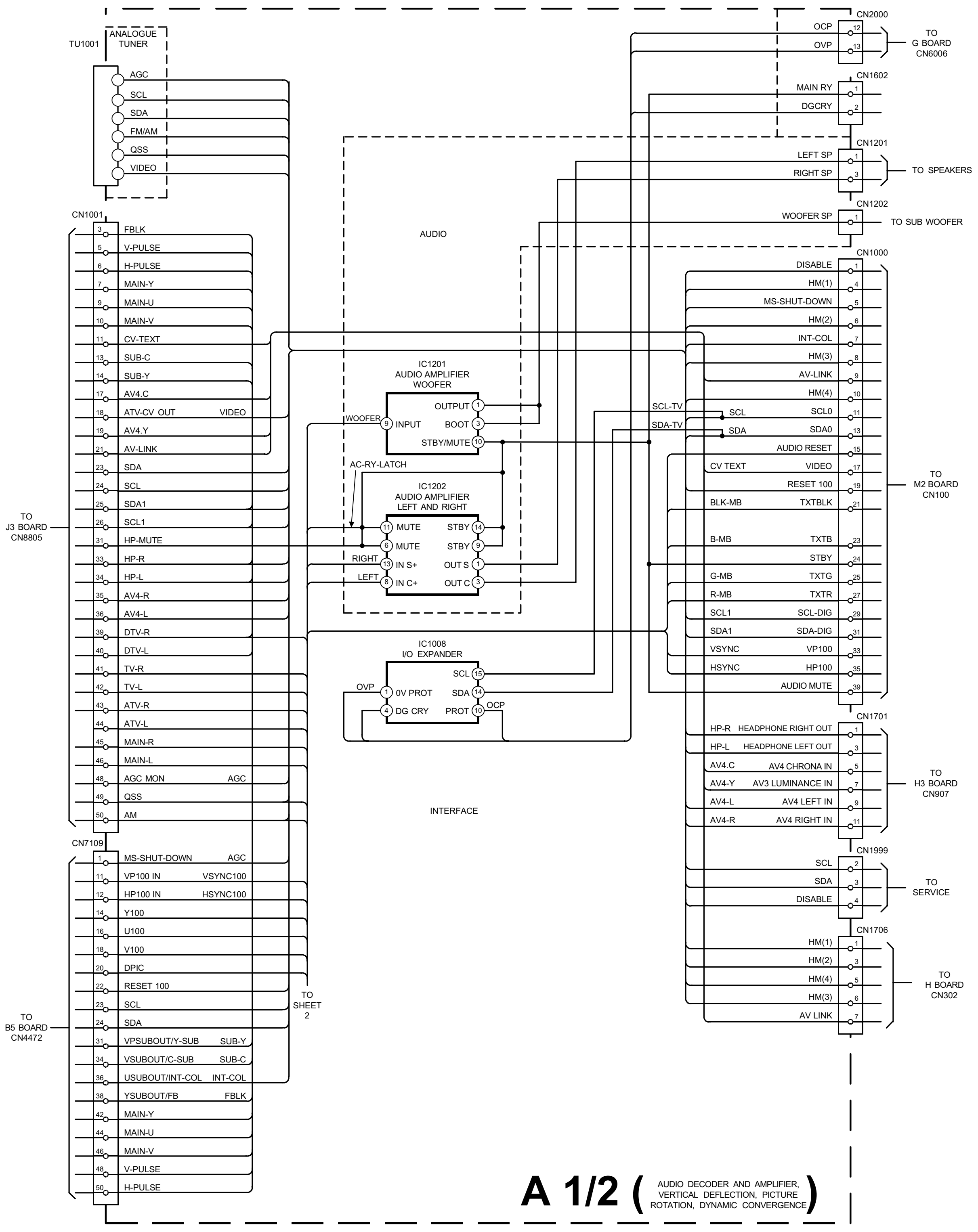
Is available by pressing the ‘TEST’ button twice, OSD ‘TT’ appears. The functions described below are available by selecting the two numbers. To release the ‘Test mode 2’, press 0 twice, press the TV button or switch the TV set into Stand-by mode. Pressing the two Local Control buttons (+ and -) during power ON will also switch into ‘TT’ mode or from standby mode press OSD, 5, volume plus, TV.
In ‘TT’ mode, it is possible to remove the Menu from the screen by pressing the Speaker Off button once. Pressing the Speaker OFF button a second time will cause the Menu to reappear. The function is kept even when the menu is not displayed on screen !!.

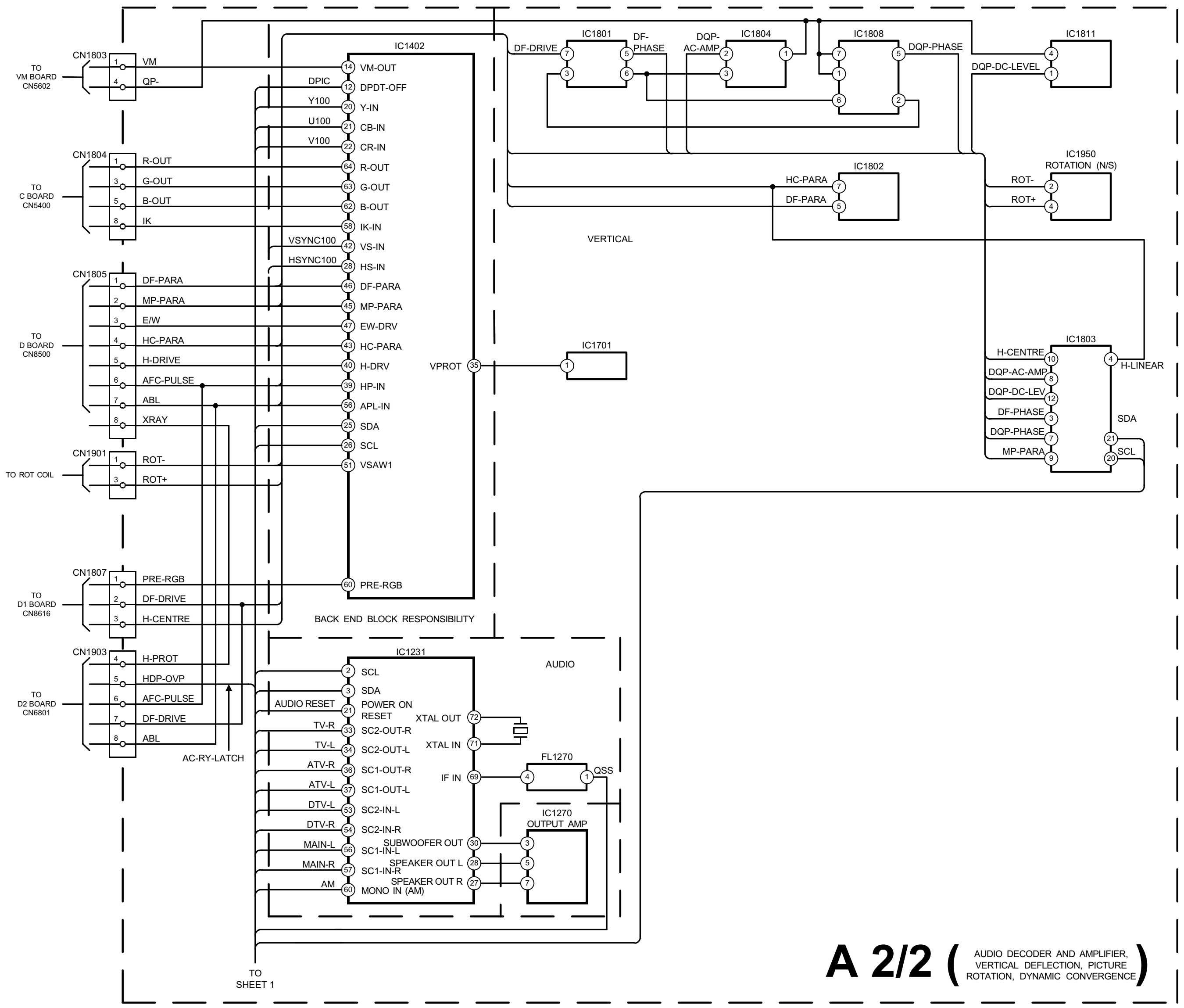
00	'TT' mode off
01	Picture maximum
02	Picture minimum
03	Set speaker/headphone Volume to 30%
04	Set speaker/headphone Volume to 50%
05	Set speaker/headphone Volume to 65%
06	Set speaker/headphone Volume to 80%
07	Ageing mode
08	Shipping Condition
09	No action
10	No action
11	Sub picture adjustment
12	Sub colour adjustment
13	Sub brightness adjustment
14	No action
15	Picture rotation automatic function
16	Picture level 50%
17	Production monitor
18	No action
19	Production mode enable/disable
20	No action
21	Destination A, D, E, display TV status
22	Destination B, Multi, display TV status
23	Destination A, D, E, display TV status
24	Destination U, display TV status
25	Destination A, D, E, display TV status
26	Destination B, Multi, display TV status
27	Destination K, display TV status
28	Destination R, display TV status
29	Geometry adjustment 1
30	No action
31	Autostandby enable/disable
32	Geometry adjustment 2
33	No action
34	Screen mode test
35	CRT 4:3 <-> 16:9, TV status
36	Velocity modulation
37	No action
38	DRC mode set to DRC 100
39	DRC mode set to DRC 50
40	No action
41	Reinitialise NVM
42	Geometry adjust 3
43	Dual A sound
44	Dual B sound
45	Mono sound
46	Stereo sound
47	No action
48	Set NVM as non-virgin
49	Set NVM as virgin
50	No Action

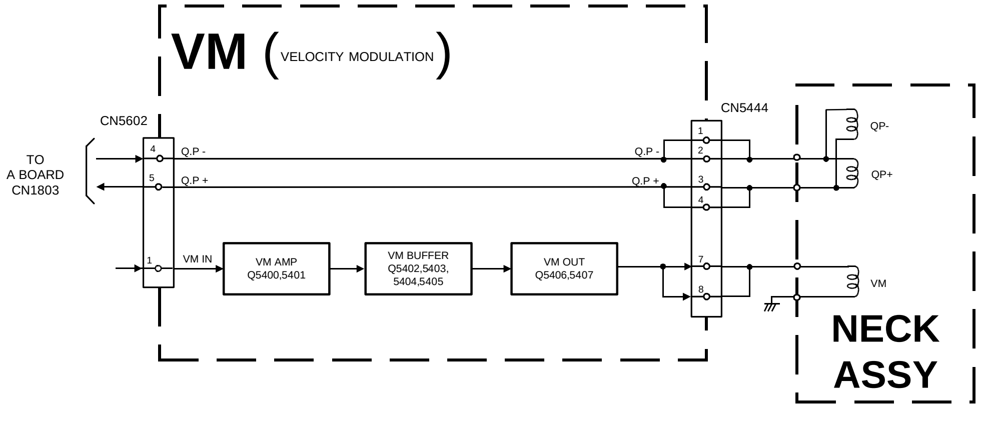
51	Virtual dolby on/off
52	OSD mute on/off
53	Reset EPG services in NVM
54	Index check
55	Internal software use only
56	Focus phase adjust
57	Focus DC level adjust
58	Copy internal NVM to external NVM on service connector
59	Copy external NVM on service connector to internal NVM
60	No Action
61	Smartlink test
62	System L audio from baseband (toggle)
63	Copy the picture reset data from ROM into the picture reset location of NVM
64	Copy the actual adj picture data from NVM into the picture reset location of NVM
65	Reset errors
66	Ignore errors (toggle)
67	Reserved for IDTV (Manual EMMA Recovery)
68	No action
69	Personal ID reset
70	No action
71	Force PAL
72	Unforce PAL
73	No action
74	No action
75	Pin Amp/UC Pin adjust
76	LC Pin/Trap adjust
77	Reset deflection offsets
78	Balance left
79	Balance right
80	No action
81	Reserved for IDTV (Digital BER display On/Off - only in digital mode)
82	Reserved for IDTV (AV monitor mode On/Off - only in digital mode)
83	Reserved for IDTV (2K, 8K, 2k & 8K toggle - only in digital mode)
84	Reserved for IDTV (Set digital NVM default - only in digital mode)
85	Reserved for IDTV
86	Reserved for IDTV (Digital model setting (AE6D/FE2D) toggle - only in digital mode)
87	Local keys test
88	Reserved for IDTV (Digital shipping condition (clear tune database) - only in digital mode)
89	Reserved for IDTV
90	No action
91	14:9 mode
92	Smart mode
93	16:9 mode
94	Zoom mode
95	4:3 mode
96	Reserved for IDTV (TS path switch (tuner/CI slot) - only in digital mode)
97	Reserved for IDTV (CTI mode - only in digital mode)
98	Reserved for IDTV (Auto EMMA recovery enable/disable)
99	Display error monitor

Memo

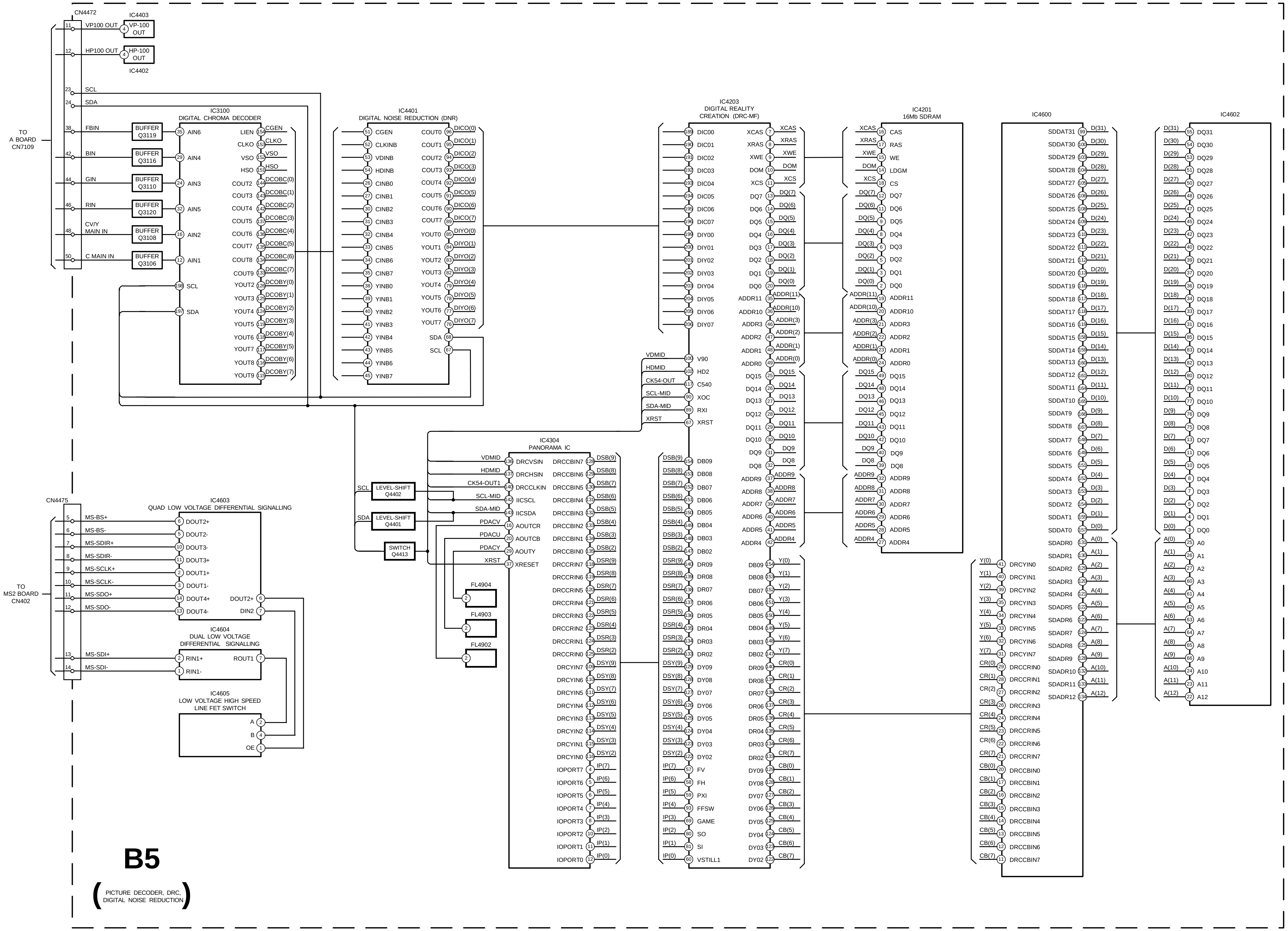
5-1. BLOCK DIAGRAMS (1)


TU1001
ANALOGUE TUNER
AGC
SCL
SDA
FM/AM
QSS
VIDEO
CN1001
TO J3 BOARD CN8805
CN7109
TO B5 BOARD CN4472
AUDIO
IC1201 AUDIO AMPLIFIER WOOFER
IC1202 AUDIO AMPLIFIER LEFT AND RIGHT
AC-RY-LATCH
IC1008 I/O EXPANDER
INTERFACE
TO SHEET 2
CN2000
TO G BOARD CN6006
CN1602
CN1201
TO SPEAKERS
CN1202
TO SUB WOOFER
CN1000
TO M2 BOARD CN100
CN1701
TO H3 BOARD CN907
CN1999
TO SERVICE
CN1706
TO H BOARD CN302
A 1/2 (AUDIO DECODER AND AMPLIFIER, VERTICAL DEFLECTION, PICTURE ROTATION, DYNAMIC CONVERGENCE)


CN1803
TO VM BOARD CN5602
CN1804
TO C BOARD CN5400
CN1805
TO D BOARD CN8500
CN1901
TO ROT COIL
CN1807
TO D1 BOARD CN8616
CN1903
TO D2 BOARD CN6801
IC1402
BACK END BLOCK RESPONSIBILITY
IC1801
IC1804
IC1808
IC1811
IC1802
IC1950 ROTATION (N/S)
VERTICAL
IC1701
IC1803
IC1231
AUDIO
FL1270
IC1270 OUTPUT AMP
AC-RY-LATCH
TO SHEET 1
A 2/2 (AUDIO DECODER AND AMPLIFIER, VERTICAL DEFLECTION, PICTURE ROTATION, DYNAMIC CONVERGENCE)

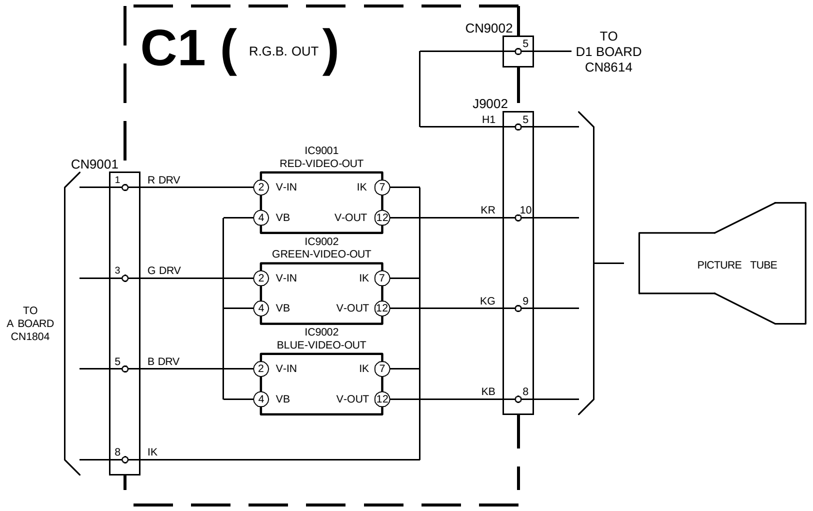

VM (VELOCITY MODULATION)
CN5602
TO A BOARD CN1803
Q.P -
Q.P +
VM IN
VM AMP Q5400,5401
VM BUFFER Q5402,5403, 5404,5405
VM OUT Q5406,5407
CN5444
QP-
QP+
VM
NECK ASSY

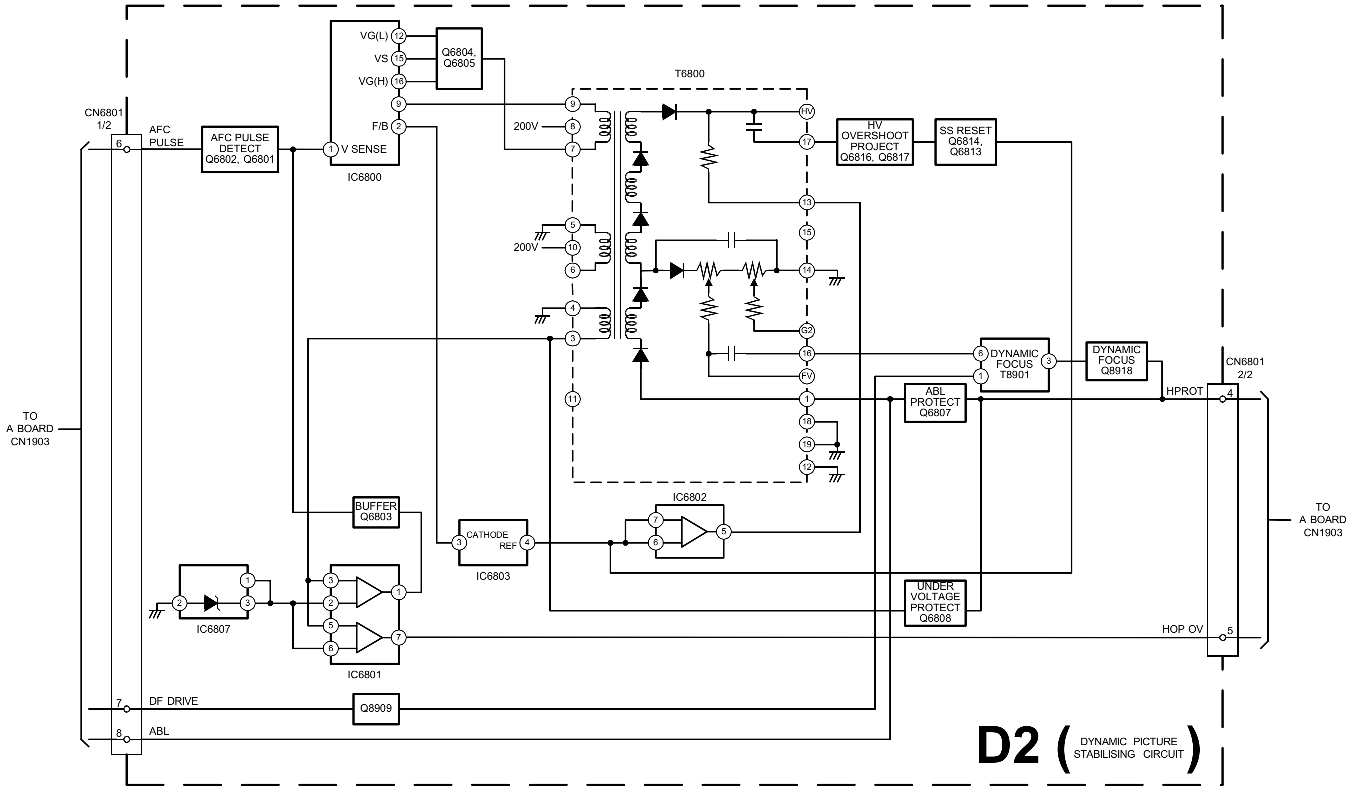
5-1. BLOCK DIAGRAMS (2)

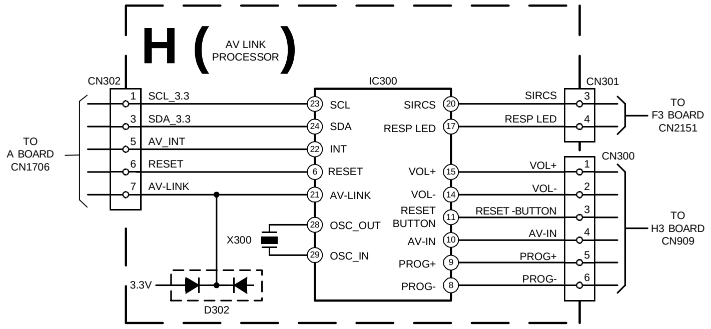


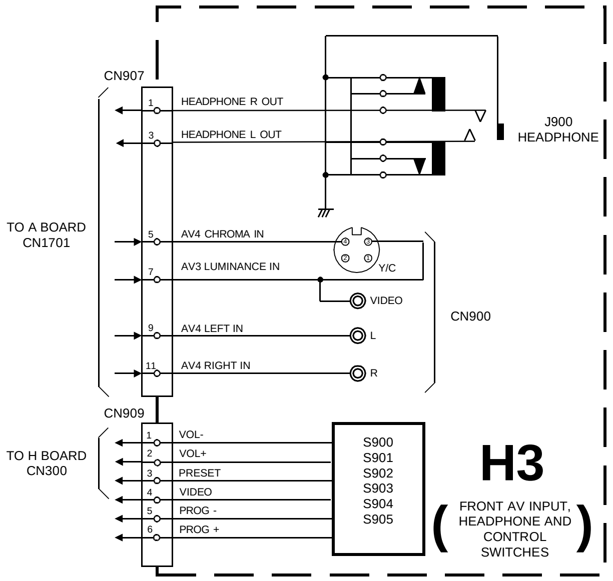
CN4472
IC4403
VP100 OUT
VP-100 OUT
HP100 OUT
HP-100 OUT
IC4402
SCL
SDA
FBIN
BIN
GIN
RIN
CV/Y MAIN IN
C MAIN IN
TO A BOARD CN7109
BUFFER Q3119
BUFFER Q3116
BUFFER Q3110
BUFFER Q3120
BUFFER Q3108
BUFFER Q3106
IC3100 DIGITAL CHROMA DECODER
IC4401 DIGITAL NOISE REDUCTION (DNR)
IC4203 DIGITAL REALITY CREATION (DRC-MF)
IC4201 16Mb SDRAM
IC4600
IC4602
IC4304 PANORAMA IC
LEVEL-SHIFT Q4402
LEVEL-SHIFT Q4401
SWITCH Q4413
FL4904
FL4903
FL4902
CN4475
TO MS2 BOARD CN402
MS-BS+
MS-BS-
MS-SDIR+
MS-SDIR-
MS-SCLK+
MS-SCLK-
MS-SDO+
MS-SDO-
MS-SDI+
MS-SDI-
IC4603 QUAD LOW VOLTAGE DIFFERENTIAL SIGNALLING
IC4604 DUAL LOW VOLTAGE DIFFERENTIAL SIGNALLING
IC4605 LOW VOLTAGE HIGH SPEED LINE FET SWITCH
B5
(PICTURE DECODER, DRC, DIGITAL NOISE REDUCTION)

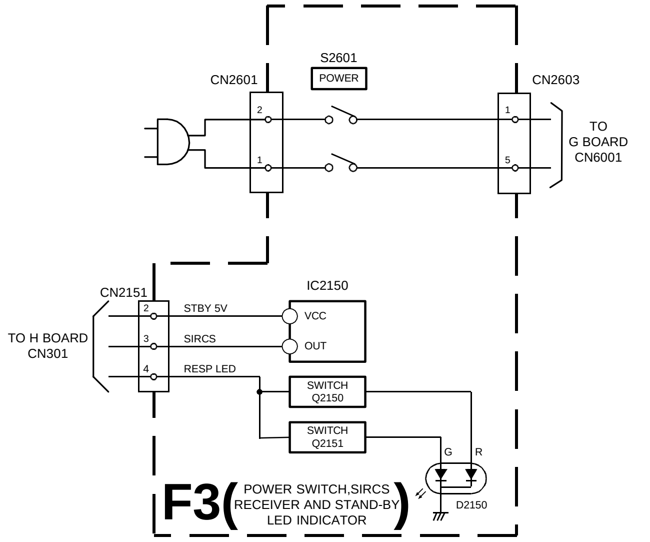
5-1. BLOCK DIAGRAMS (3)

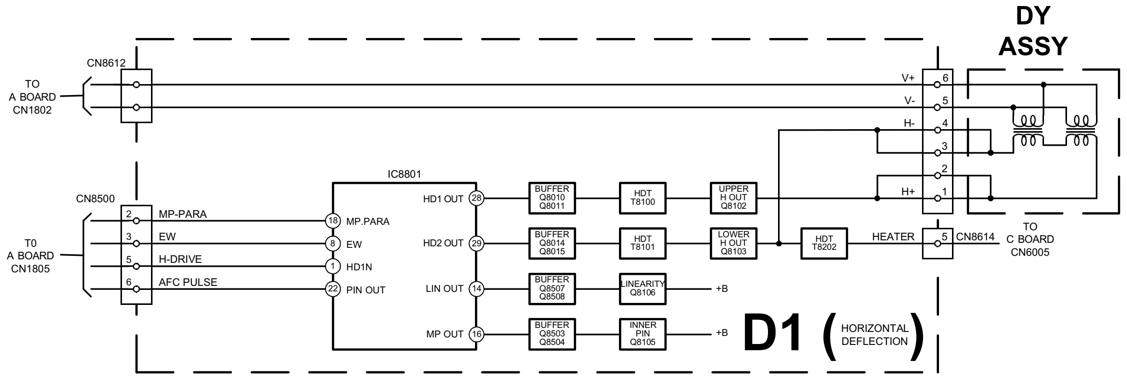

C1 (R.G.B. OUT)
CN9002
TO D1 BOARD CN8614
J9002
H1
CN9001
R DRV
G DRV
B DRV
IK
IC9001 RED-VIDEO-OUT
IC9002 GREEN-VIDEO-OUT
IC9002 BLUE-VIDEO-OUT
V-IN
VB
IK
V-OUT
KR
KG
KB
PICTURE TUBE
TO A BOARD CN1804


D2 (DYNAMIC PICTURE STABILISING CIRCUIT)
CN6801 1/2
AFC PULSE
AFC PULSE DETECT Q6802, Q6801
IC6800
VG(L)
VS
VG(H)
F/B
V SENSE
Q6804, Q6805
T6800
200V
HV OVERSHOOT PROJECT Q6816, Q6817
SS RESET Q6814, Q6813
DYNAMIC FOCUS T8901
DYNAMIC FOCUS Q8918
ABL PROTECT Q6807
CN6801 2/2
HPROT
HOP OV
TO A BOARD CN1903
BUFFER Q6803
CATHODE REF
IC6803
IC6802
IC6807
IC6801
UNDER VOLTAGE PROTECT Q6808
Q8909
DF DRIVE
ABL

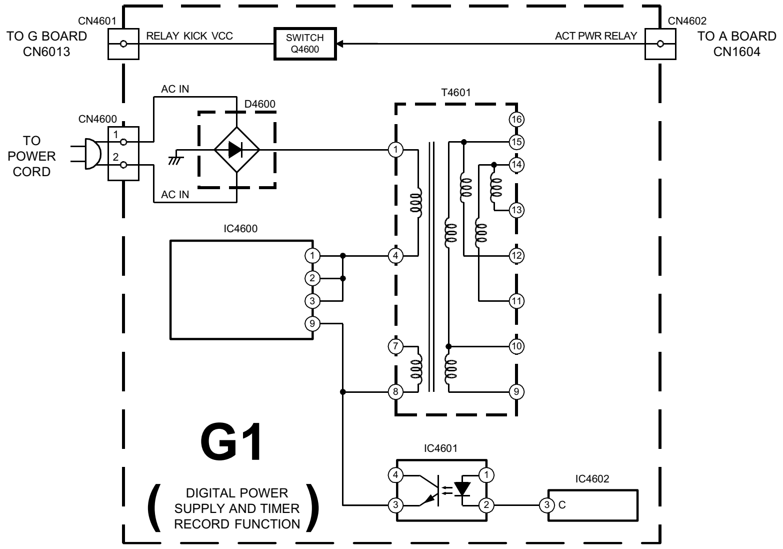

H (AV LINK PROCESSOR)
CN302
IC300
CN301
SCL_3.3
SDA_3.3
AV_INT
RESET
AV-LINK
SCL
SDA
INT
RESET
AV-LINK
OSC_OUT
OSC_IN
X300
3.3V
D302
SIRCS
RESP LED
VOL+
VOL-
RESET BUTTON
AV-IN
PROG+
PROG-
RESET -BUTTON
CN300
TO A BOARD CN1706
TO F3 BOARD CN2151
TO H3 BOARD CN909


CN907
HEADPHONE R OUT
HEADPHONE L OUT
J900 HEADPHONE
TO A BOARD CN1701
AV4 CHROMA IN
AV3 LUMINANCE IN
AV4 LEFT IN
AV4 RIGHT IN
Y/C
VIDEO
L
R
CN900
CN909
TO H BOARD CN300
VOL-
VOL+
PRESET
VIDEO
PROG -
PROG +
S900
S901
S902
S903
S904
S905
H3
(FRONT AV INPUT, HEADPHONE AND CONTROL SWITCHES)

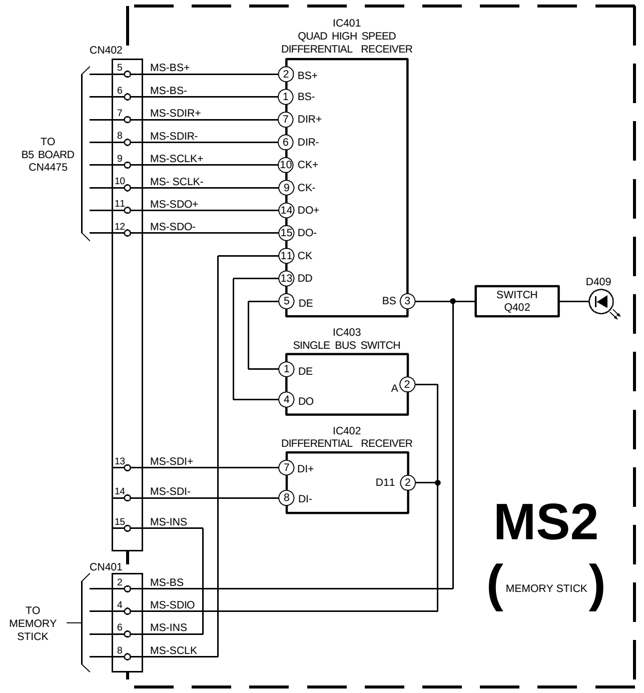

S2601
POWER
CN2601
CN2603
TO G BOARD CN6001
CN2151
IC2150
STBY 5V
SIRCS
RESP LED
VCC
OUT
SWITCH Q2150
SWITCH Q2151
TO H BOARD CN301
G
R
D2150
F3(POWER SWITCH,SIRCS RECEIVER AND STAND-BY LED INDICATOR)


DY ASSY
CN8612
TO A BOARD CN1802
V+
V-
H-
H+
CN8500
T0 A BOARD CN1805
MP-PARA
EW
H-DRIVE
AFC PULSE
IC8801
MP.PARA
EW
HD1N
PIN OUT
HD1 OUT
HD2 OUT
LIN OUT
MP OUT
BUFFER Q8010 Q8011
BUFFER Q8014 Q8015
BUFFER Q8507 Q8508
BUFFER Q8503 Q8504
HDT T8100
HDT T8101
LINEARITY Q8106
INNER PIN Q8105
UPPER H OUT Q8102
LOWER H OUT Q8103
HDT T8202
+B
HEATER
CN8614
TO C BOARD CN6005
D1 (HORIZONTAL DEFLECTION)

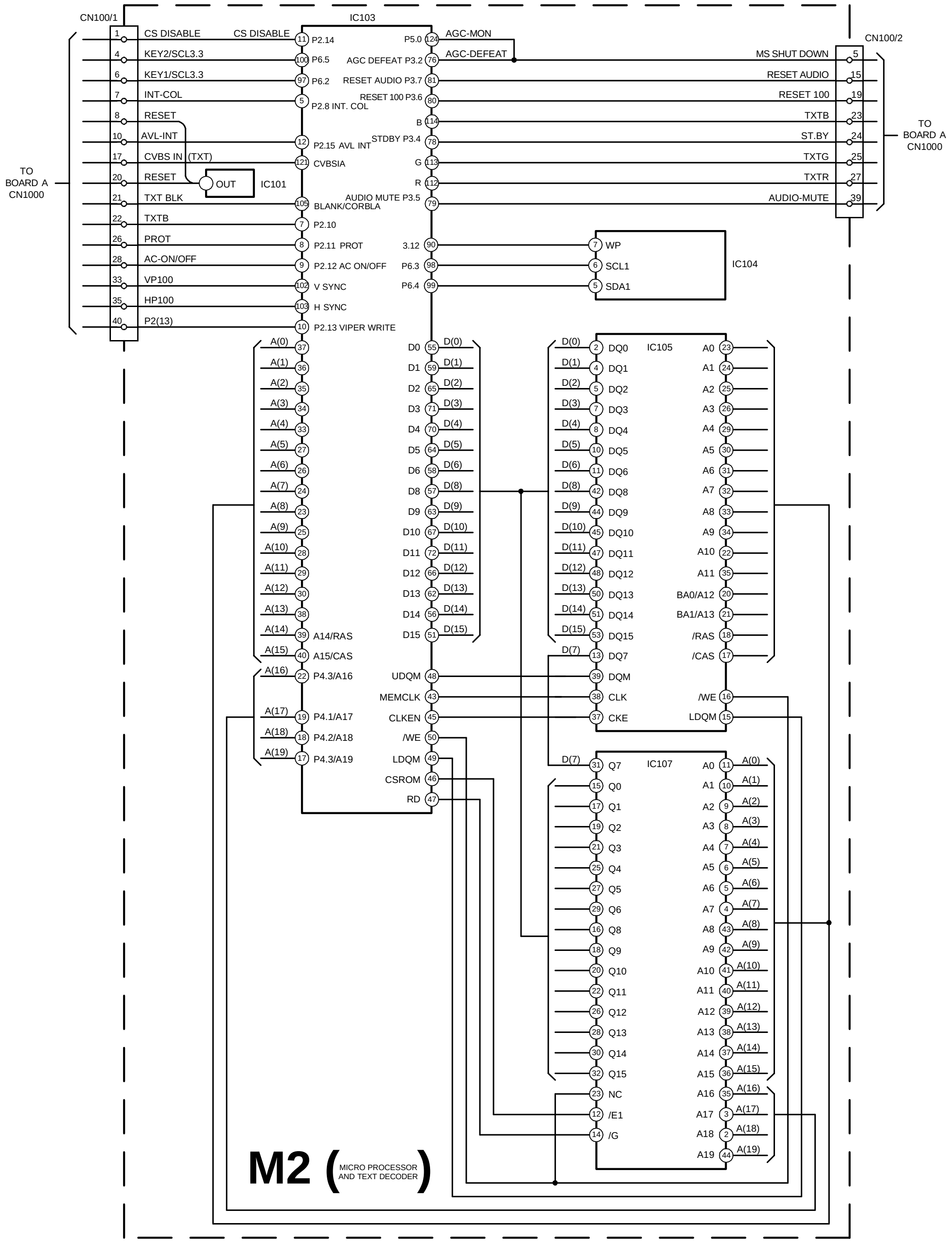
5-1. BLOCK DIAGRAMS (4)



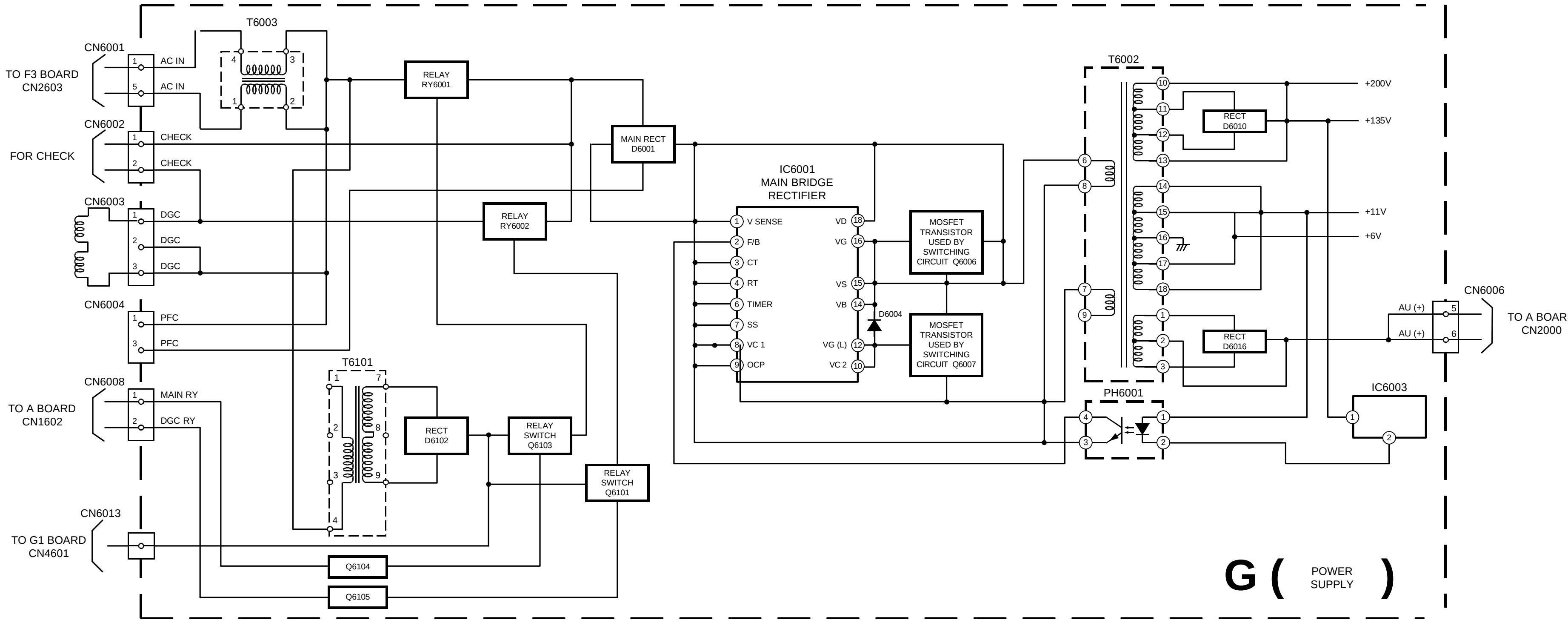
TO G BOARD CN6013
CN4601
RELAY KICK VCC
SWITCH Q4600
ACT PWR RELAY
CN4602
TO A BOARD CN1604
TO POWER CORD
CN4600
AC IN
D4600
T4601
IC4600
IC4601
IC4602
C
G1
(DIGITAL POWER SUPPLY AND TIMER RECORD FUNCTION)



CN402
TO B5 BOARD CN4475
MS-BS+
MS-BS-
MS-SDIR+
MS-SDIR-
MS-SCLK+
MS- SCLK-
MS-SDO+
MS-SDO-
IC401 QUAD HIGH SPEED DIFFERENTIAL RECEIVER
BS+
BS-
DIR+
DIR-
CK+
CK-
DO+
DO-
CK
DD
DE
BS
SWITCH Q402
D409
IC403 SINGLE BUS SWITCH
DE
DO
A
IC402 DIFFERENTIAL RECEIVER
DI+
DI-
D11
MS-SDI+
MS-SDI-
MS-INS
CN401
TO MEMORY STICK
MS-BS
MS-SDIO
MS-INS
MS-SCLK
MS2
(MEMORY STICK)

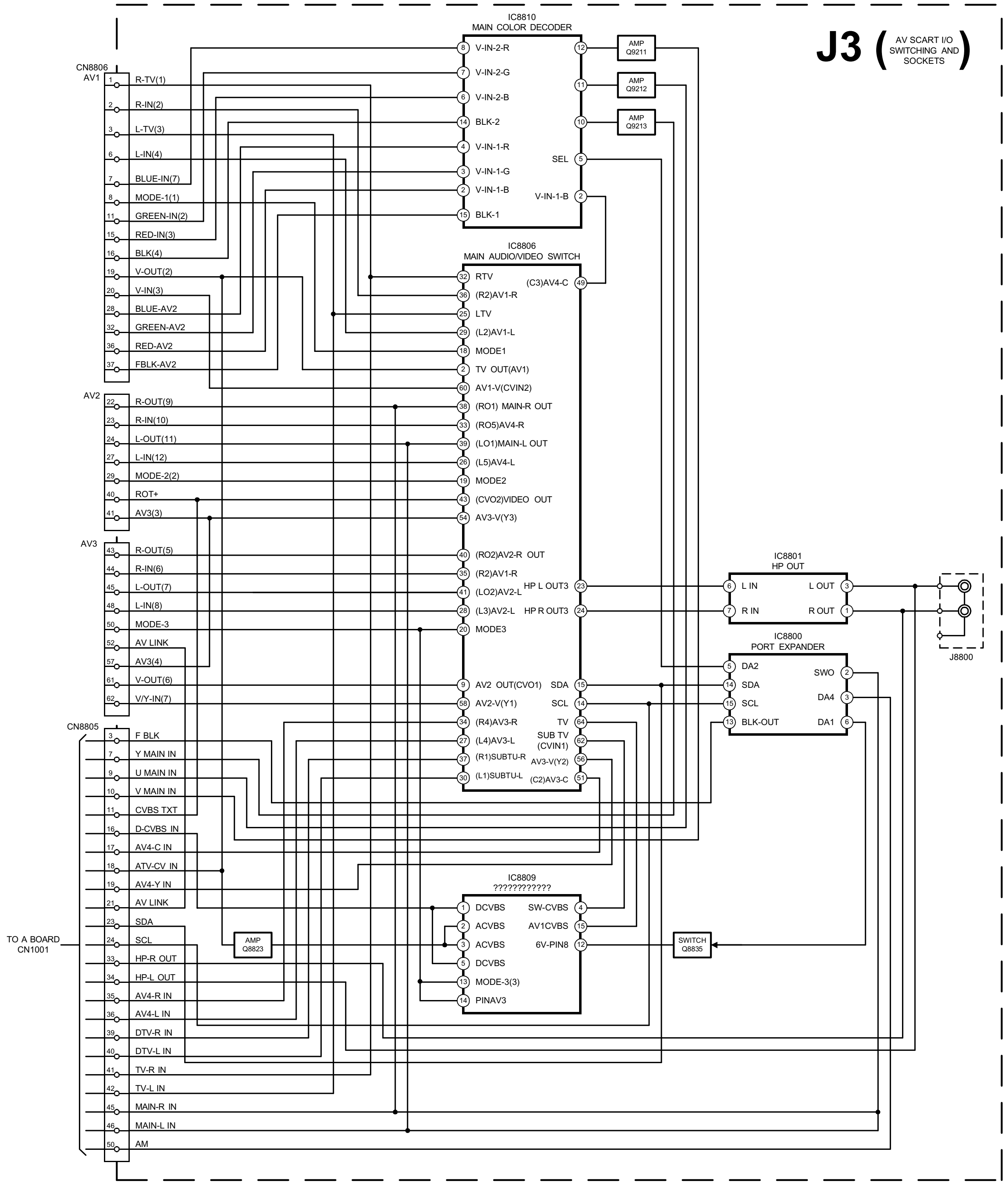


CN100/1
IC103
CN100/2
TO BOARD A CN1000
CS DISABLE
KEY2/SCL3.3
KEY1/SCL3.3
INT-COL
RESET
AVL-INT
CVBS IN (TXT)
RESET
TXT BLK
TXTB
PROT
AC-ON/OFF
VP100
HP100
P2(13)
OUT
IC101
P2.14
P6.5
P6.2
P2.8 INT. COL
P2.15 AVL INT
CVBSIA
BLANK/CORBLA
P2.10
P2.11 PROT
P2.12 AC ON/OFF
V SYNC
H SYNC
P2.13 VIPER WRITE
P5.0
AGC DEFEAT P3.2
RESET AUDIO P3.7
RESET 100 P3.6
STDBY P3.4
AUDIO MUTE P3.5
AGC-MON
AGC-DEFEAT
MS SHUT DOWN
RESET AUDIO
RESET 100
TXTB
ST.BY
TXTG
TXTR
AUDIO-MUTE
TO BOARD A CN1000
3.12
P6.3
P6.4
WP
SCL1
SDA1
IC104
A14/RAS
A15/CAS
P4.3/A16
P4.1/A17
P4.2/A18
P4.3/A19
UDQM
MEMCLK
CLKEN
/WE
LDQM
CSROM
RD
IC105
DQ0–DQ15
DQM
CLK
CKE
BA0/A12
BA1/A13
/RAS
/CAS
/WE
LDQM
IC107
Q0–Q15
NC
/E1
/G
A0–A19
M2 (MICRO PROCESSOR AND TEXT DECODER)

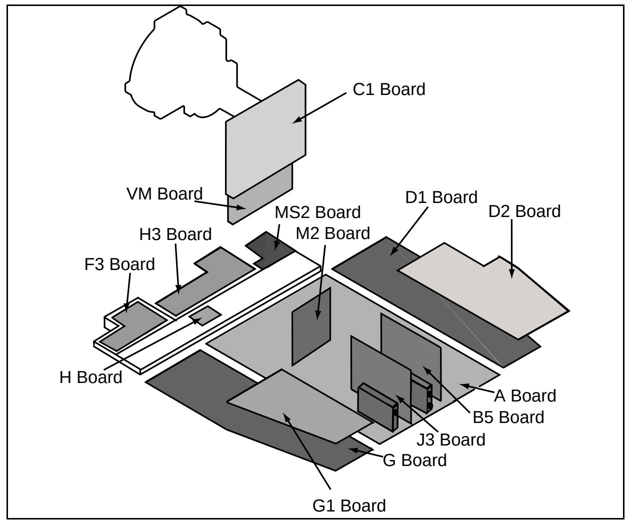


CN6001
TO F3 BOARD CN2603
AC IN
AC IN
T6003
CN6002
FOR CHECK
CHECK
CHECK
CN6003
DGC
DGC
DGC
CN6004
PFC
PFC
CN6008
TO A BOARD CN1602
MAIN RY
DGC RY
CN6013
TO G1 BOARD CN4601
RELAY RY6001
MAIN RECT D6001
RELAY RY6002
T6101
RECT D6102
RELAY SWITCH Q6103
RELAY SWITCH Q6101
Q6104
Q6105
IC6001 MAIN BRIDGE RECTIFIER
V SENSE
F/B
CT
RT
TIMER
SS
VC 1
OCP
VD
VG
VS
VB
VG (L)
VC 2
D6004
MOSFET TRANSISTOR USED BY SWITCHING CIRCUIT Q6006
MOSFET TRANSISTOR USED BY SWITCHING CIRCUIT Q6007
T6002
RECT D6010
RECT D6016
+200V
+135V
+11V
+6V
AU (+)
AU (+)
CN6006
TO A BOARD CN2000
PH6001
IC6003
G (POWER SUPPLY)

5-1. BLOCK DIAGRAMS (5)


J3 (AV SCART I/O SWITCHING AND SOCKETS)
IC8810 MAIN COLOR DECODER
V-IN-2-R
V-IN-2-G
V-IN-2-B
BLK-2
V-IN-1-R
V-IN-1-G
V-IN-1-B
BLK-1
SEL
AMP Q9211
AMP Q9212
AMP Q9213
IC8806 MAIN AUDIO/VIDEO SWITCH
RTV
(R2)AV1-R
LTV
(L2)AV1-L
MODE1
TV OUT(AV1)
AV1-V(CVIN2)
(RO1) MAIN-R OUT
(RO5)AV4-R
(LO1)MAIN-L OUT
(L5)AV4-L
MODE2
(CVO2)VIDEO OUT
AV3-V(Y3)
(C3)AV4-C
(RO2)AV2-R OUT
(R2)AV1-R
(LO2)AV2-L
(L3)AV2-L
MODE3
HP L OUT3
HP R OUT3
AV2 OUT(CVO1)
AV2-V(Y1)
(R4)AV3-R
(L4)AV3-L
(R1)SUBTU-R
(L1)SUBTU-L
SDA
SCL
TV
SUB TV (CVIN1)
AV3-V(Y2)
(C2)AV3-C
IC8801 HP OUT
L IN
R IN
L OUT
R OUT
IC8800 PORT EXPANDER
DA2
SDA
SCL
BLK-OUT
SWO
DA4
DA1
J8800
IC8809 ????????????
DCVBS
ACVBS
ACVBS
DCVBS
MODE-3(3)
PINAV3
SW-CVBS
AV1CVBS
6V-PIN8
AMP Q8823
SWITCH Q8835
CN8806 AV1
R-TV(1)
R-IN(2)
L-TV(3)
L-IN(4)
BLUE-IN(7)
MODE-1(1)
GREEN-IN(2)
RED-IN(3)
BLK(4)
V-OUT(2)
V-IN(3)
BLUE-AV2
GREEN-AV2
RED-AV2
FBLK-AV2
AV2
R-OUT(9)
R-IN(10)
L-OUT(11)
L-IN(12)
MODE-2(2)
ROT+
AV3(3)
AV3
R-OUT(5)
R-IN(6)
L-OUT(7)
L-IN(8)
MODE-3
AV LINK
AV3(4)
V-OUT(6)
V/Y-IN(7)
CN8805
F BLK
Y MAIN IN
U MAIN IN
V MAIN IN
CVBS TXT
D-CVBS IN
AV4-C IN
ATV-CV IN
AV4-Y IN
AV LINK
SDA
SCL
HP-R OUT
HP-L OUT
AV4-R IN
AV4-L IN
DTV-R IN
DTV-L IN
TV-R IN
TV-L IN
MAIN-R IN
MAIN-L IN
AM
TO A BOARD CN1001

5-2. CIRCUIT BOARD LOCATION


C1 Board
VM Board
MS2 Board
D1 Board
D2 Board
H3 Board
M2 Board
F3 Board
H Board
A Board
B5 Board
J3 Board
G Board
G1 Board

5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note :

- All capacitors are in μF unless otherwise noted.
- pF : μμF 50WV or less are not indicated except for electrolytic types.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch : 5mm
Electrical power rating : 1/4W

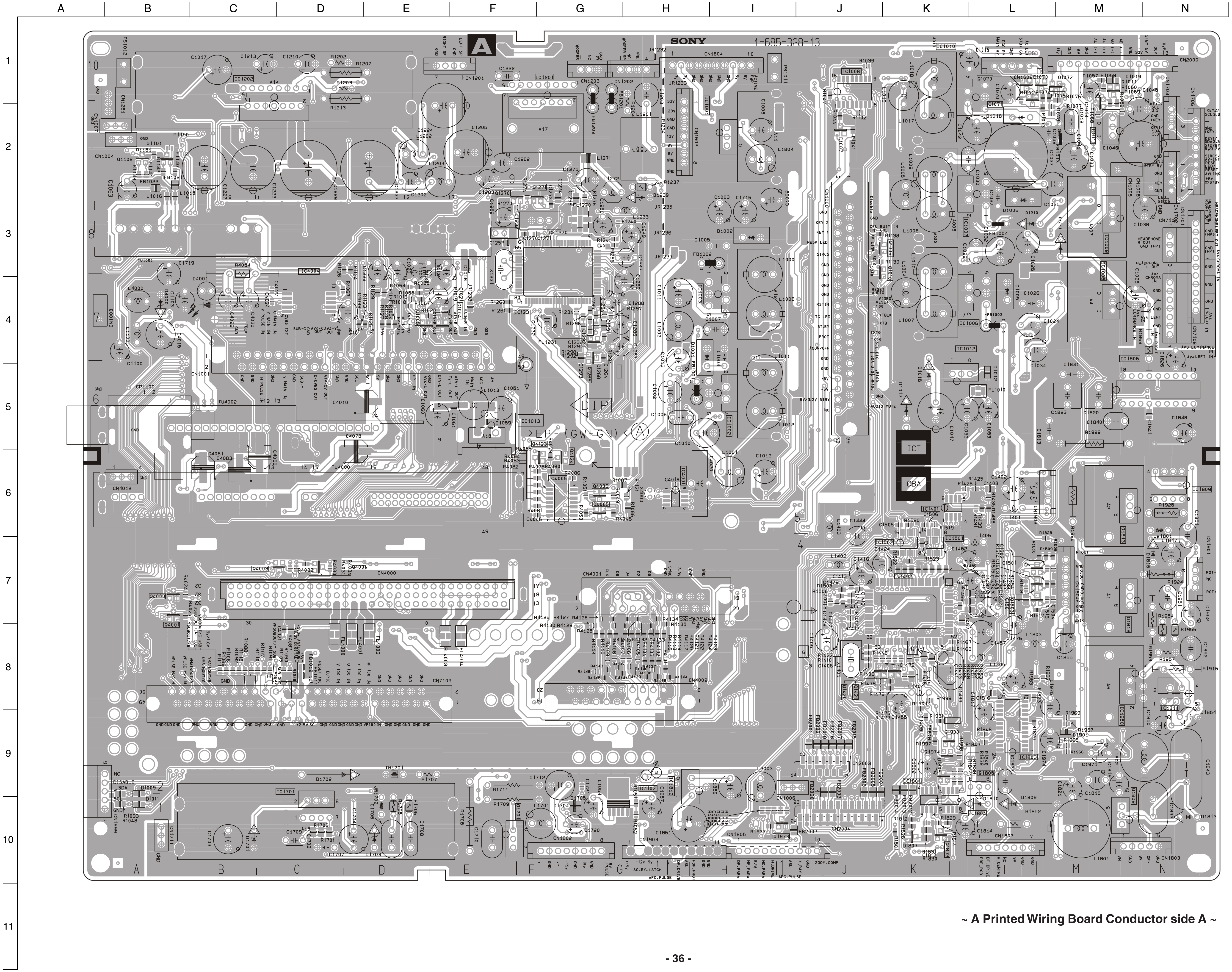
- Chip resistors are 1/10W
- All resistors are in ohms.
  k = 1000 ohms, M = 1000,000 ohms
- : nonflammable resistor.
- : fusible resistor.
- △ : internal component.
- ▭ : panel designation or adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All voltages are in Volts.
- Readings are taken with a 10Mohm digital mutimeter.
- Readings are taken with a color bar input signal.
- Voltage variations may be noted due to normal production tolerences.
- ━━ : B + bus.
- ▬ ▬ ▬ : B - bus.
- ➡ : RF signal path.
- ⊥ : earth - ground.
- ⏚ : earth - chassis.

Reference Information

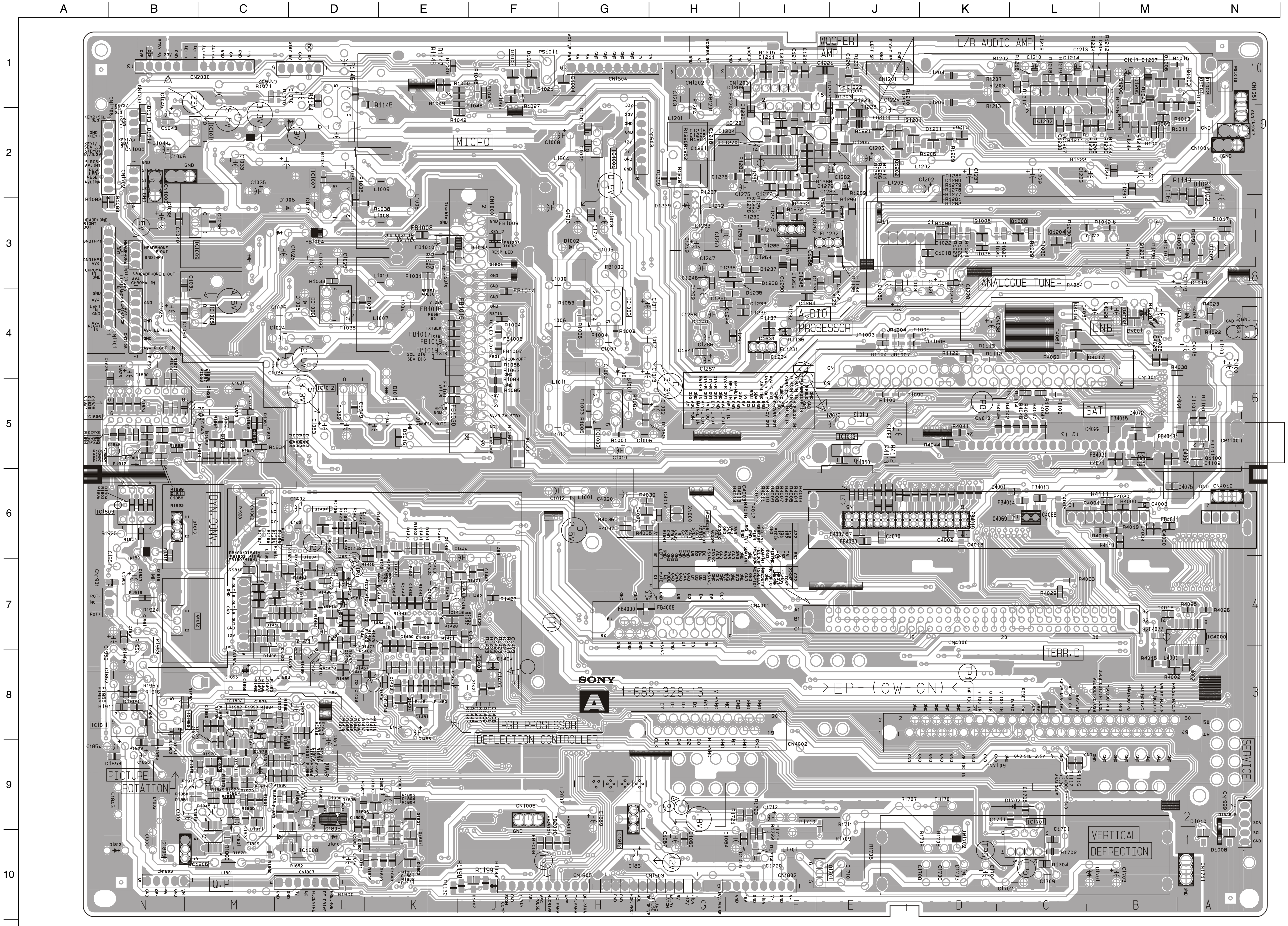
RESISTOR	**RN**	: METAL FILM
	RC	: SOLID
	FPRD	: NON FLAMMABLE CARBON
	FUSE	: NON FLAMMABLE FUSIBLE
	RS	: NON FLAMMABLE METAL OXIDE
	RB	: NON FLAMMABLE CEMENT
	RW	: NON FLAMMABLE WIREWOUND
	⊠	: ADJUSTMENT RESISTOR
COIL	**LF-8L**	: MICRO INDUCTOR
CAPACITOR	**TA**	: TANTALUM
	PS	: STYROL
	PP	: POLYPROPYLENE
	PT	: MYLAR
	MPS	: METALIZED POLYESTER
	MPP	: METALIZED POLYPROPYLENE
	ALB	: BIPOLAR
	ALT	: HIGH TEMPERATURE
	ALR	: HIGH RIPPLE

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

Note : Les composants identifiés par une trame et par une marque ⚠ sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié. specified.



~ A Printed Wiring Board Conductor side A ~


A
B
C
D
E
F
G
H
I
J
K
L
M
N
1
2
3
4
5
6
7
8
9
10
11
WOOFER AMP
L/R AUDIO AMP
MICRO
ANALOGUE TUNER
AUDIO PROSESSOR
LNB
SAT
DYN. CONV.
TERR.D
SONY
A
1-685-328-13
>EP-(GW+GN)<
RGB PROSESSOR
DEFLECTION CONTROLLER
PICTURE ROTATION
Q.P
VERTICAL DEFRECTION
SERVICE
CN2000
CN1604
CN1603
CN1001
CN4000
CN4001
CN4002
CN7109
CN1006
CN1805
CN1903
CN1802
CN1807
CN1803
CN1701
CN1251
CN1999

~ A Printed Wiring Board Conductor side B ~

~ A Board Location Table (A Side) ~

DIODE		D1018	L - 2	D1703	E - 10	D1816	N - 7	IC1011	M - 2	IC1801	K - 10	**TRANSISTOR**		Q1072	M - 1	Q1812	M - 7
D1006	L - 3	D1019	M - 1	D1704	G - 10	**IC**		IC1012	K - 5	IC1803	L - 9	Q1004	E - 4	Q1270	F - 3	Q1813	M - 6
D1007	J - 2	D1070	L - 1	D1705	G - 10	IC1005	M - 4	IC1102	G - 10	IC1804	K - 10	Q1005	E - 4	Q1271	G - 3	Q1973	I - 10
D1009	B - 9	D1210	L - 3	D1807	K - 10	IC1006	K - 4	IC1201	G - 2	IC1806	N - 5	Q1007	L - 1	Q1701	F - 10	Q1974	K - 9
D1011	B - 10	D1211	M - 3	D1808	K - 9	IC1007	K - 3	IC1202	C - 1	IC1809	N - 6	Q1011	M - 1	Q1803	K - 10		
D1012	L - 5	D1239	H - 3	D1809	L - 10	IC1008	J - 1	IC1231	G - 4	IC1811	N - 8	Q1012	M - 2	Q1805	L - 10		
D1015	K - 5	D1701	C - 10	D1810	L - 10	IC1009	M - 3	IC1402	K - 7	IC1812	H - 10	Q1070	L - 1	Q1809	M - 10		
D1017	K - 5	D1702	D - 9	D1813	N - 10	IC1010	K - 2	IC1701	D - 10	IC1950	M - 9	Q1071	L - 2	Q1811	M - 6		

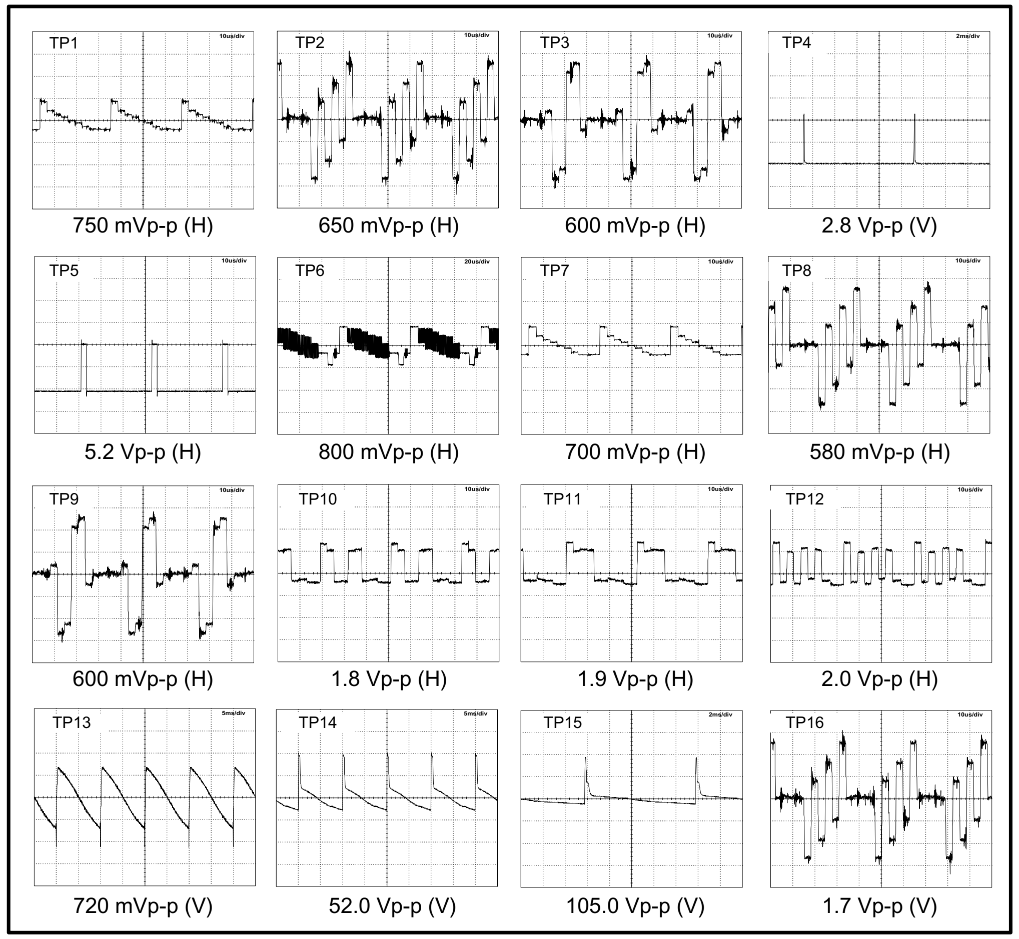
~ A Board Location Table (B Side) ~

DIODE		D1014	B - 2	D1206	M - 1	D1801	E - 9	D1814	B - 5	Q1002	M - 2	Q1203	J - 2	Q1407	E - 8	Q1804	D - 7
D1003	F - 1	D1016	E - 5	D1207	M - 1	D1802	E - 10	**IC**		Q1003	M - 1	Q1204	L - 3	Q1410	C - 7	Q1806	C - 5
D1004	G - 1	D1201	K - 2	D1209	N - 3	D1803	D - 9	IC1270	I - 2	Q1006	K - 3	Q1205	M - 1	Q1413	D - 7	Q1807	C - 5
D1005	D - 4	D1202	K - 2	D1235	H - 4	D1804	D - 7	IC1802	C - 8	Q1008	L - 3	Q1207	M - 4	Q1422	D - 7	Q1808	C - 5
D1008	N - 10	D1203	J - 2	D1236	H - 4	D1805	C - 7	IC1808	C - 10	Q1100	N - 5	Q1272	I - 3	Q1423	C - 7	Q1970	C - 9
D1010	N - 10	D1204	I - 2	D1403	D - 7	D1806	D - 7	**TRANSISTOR**		Q1201	J - 2	Q1402	E - 8	Q1801	E - 10	Q1971	C - 9
D1013	B - 2	D1205	J - 2	D1406	C - 8	D1811	C - 9	Q1001	M - 2	Q1202	J - 2	Q1406	E - 7	Q1802	C - 7	Q1972	C - 9

~ A Board Semiconductor Voltages ~

Ref	(s)	(g)	(d)	Ref	(e)	(b)	(c)	Ref	(e)	(b)	(c)	Ref	(e)	(b)	(c)
Q1701	-0.3	11.6	-0.3	Q1008	8.8	8.2	4.5	Q1207	0	0.4	4.2	Q1422	3.5	4.2	0
Q1809	0	4.8	25.7	Q1011	0	0.7	0	Q1270	1.2	1.8	4.9	Q1423	3.5	2.2	8.9
Ref	**(e)**	**(b)**	**(c)**	Q1072	0	0	3.2	Q1271	1.8	2.4	4.9	Q1801	0	0.5	2.0
Q1001	0	0	4.9	Q1100	0	4.6	0	Q1272	4.9	5.5	8.8	Q1803	0	0.4	2.0
Q1002	0	0	4.9	Q1201	12.2	12.6	0	Q1402	5.0	5.7	8.9	Q1804	0	0.1	4.6
Q1003	4.9	4.9	0	Q1202	0	0	4.2	Q1406	3.1	2.4	0	Q1805	12.0	11.6	5.7
Q1004	1.3	2.0	4.3	Q1203	0	0	4.2	Q1407	3.5	2.8	0	Q1806	1.9	1.3	0
Q1005	4.9	4.3	2.1	Q1204	0	0	4.2	Q1410	3.5	8.0	0	Q1807	2.8	3.4	7.8
Q1006	2.6	3.2	8.2	Q1205	0	0.6	0	Q1413	3.6	3.0	0	Q1808	2.7	3.3	7.8

~ A Board Waveforms ~



750 mVp-p (H)
650 mVp-p (H)
600 mVp-p (H)
2.8 Vp-p (V)

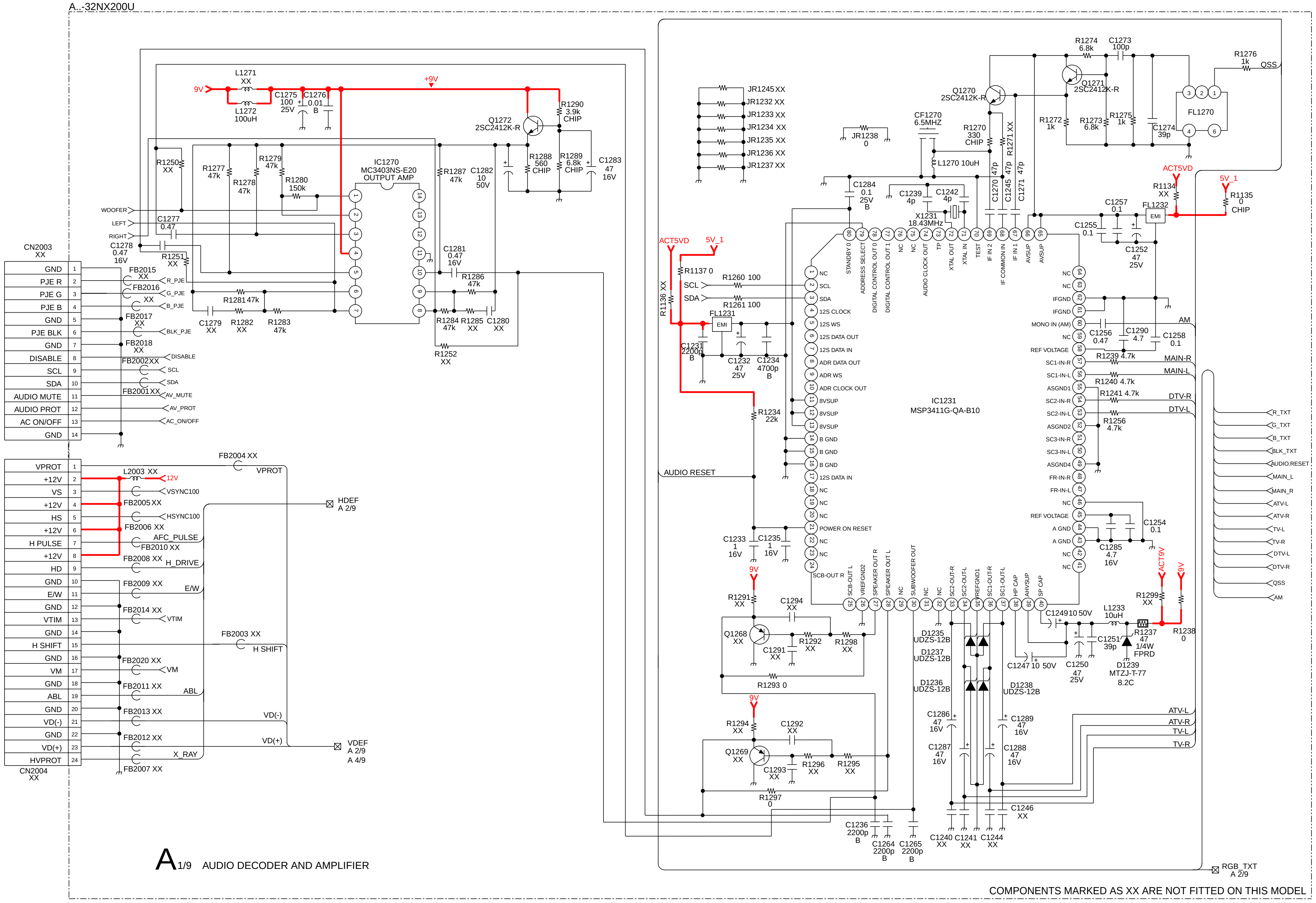
5.2 Vp-p (H)
800 mVp-p (H)
700 mVp-p (H)
580 mVp-p (H)

600 mVp-p (H)
1.8 Vp-p (H)
1.9 Vp-p (H)
2.0 Vp-p (H)

720 mVp-p (V)
52.0 Vp-p (V)
105.0 Vp-p (V)
1.7 Vp-p (V)

~ A Board IC Voltages ~

Ref No	Pin No	Volts (V)	Ref No	Pin No	Volts (V)	Ref No	Pin No	Volts (V)	Ref No	Pin No	Volts (V)	Ref No	Pin No	Volts (V)	Ref No	Pin No	Volts (V)	Ref No	Pin No	Volts (V)	Ref No	Pin No	Volts (V)	Ref No	Pin No	Volts (V	Ref No	Pin No	Volts (V
IC1201	1	0	IC1202	8	0	IC1102	5	13.7	IC1402	17	2.6	IC1402	41	0	IC1402	63	2.9	IC1803	21	4.8	IC1802	3	1.1	IC1270	9	4.8	IC1806	17	4.8
	2	-4.3		9	0	IC7002	1	7.0		18	1.1		42	0		64	2.7		22	4.9		4	0		10	4.8		18	0
	3	10.0		10	0		2	2.6		19	4.9		43	3.3	IC1803	1	1.9		23	0		5	1.5		11	0	IC1809	1	9.2
	4	0		11	0.3		3	0		20	3.5		44	0		2	1.1		24	0		6	1.5		12	0.9		2	3.6
	5	0		12	0		4	1.3		21	3.4		45	4.2		3	3.6	IC1801	1	4.4		7	2.6		13	0.8		3	3.6
	6	-13.3		13	0		5	6.4		22	3.4		46	3.5		4	2.3		2	5.8		8	8.9		14	7.6		4	-14.2
	7	0		14	0	IC1402	1	0		23	5.0		47	3.8		5	4.2		3	6.2	IC1808	1	4.8	IC1806	1	4.8		5	9.2
	8	-15.3		15	15.2		2	0		24	0		48	4.4		6	4.2		4	0		2	2.0		2	4.8		6	-1.2
	9	0	IC1007	1	7.1		3	0		25	4.8		49	5.2		7	2.4		5	4.4		3	1.6		3	4.8		7	12.0
	10	4.2		2	0		4	3.1		26	4.8		50	3.4		8	2.6		6	4.3		4	0		4	4.8		8	-12.9
	11	15.2		3	5.8		5	3.1		27	0.9		51	4.1		9	2.6		7	0.4		5	5.1		5	4.9	IC1701	1	1.2
	12	-4.3		4	6.3		6	3.1		28	0.3		52	3.4		10	1.5		8	12.0		6	4.3		6	4.9		2	14.8
	13	15.2		5	0		7	0		29	5.0		53	3.4		11	2.2	IC1804	1	6.3		7	4.8		7	4.9		3	-11.4
	14	-15.3	IC1010	1	12.6		8	3.6		30	5.7		54	0.6		12	2.4		2	4.3		8	8.9		8	4.9		4	-14.2
	15	-15.3		2	5.0		9	3.6		31	1.3		55	8.9		13	4.9		3	4.3	IC1270	1	4.9		9	5.2		5	0
IC1202	1	0		3	0		10	3.6		32	3.1		56	4.3		14	0		4	0		2	4.8		10	12.0		6	15.3
	2	15.2		4	1.3		11	0		34	0		57	4.9		15	4.9		5	3.4		3	4.8		11	4.1		7	1.2
	3	0		5	6.8		12	0.9		35	0.9		58	3.7		16	4.9		6	3.5		4	8.8		12	4.9	IC1811	1	2.0
	4	-15.3	IC1102	1	13.2		13	0		37	0		59	1.5		17	4.9		7	0		5	4.8		13	4.9		2	2.0
	5	0		2	-12.5		14	2.4		38	2.3		60	1.5		18	0		8	8.9		6	4.8		14	1.9		3	-14.2
	6	0.3		3	-15.4		15	4.9		39	2.1		61	8.9		19	0	IC1802	1	5.4		7	4.9		15	1.1		4	1.0
	7	0		4	-0.4		16	2.6		40	2.8		62	2.9		20	4.8		2	1.1		8	4.9		16	4.8		5	8.9

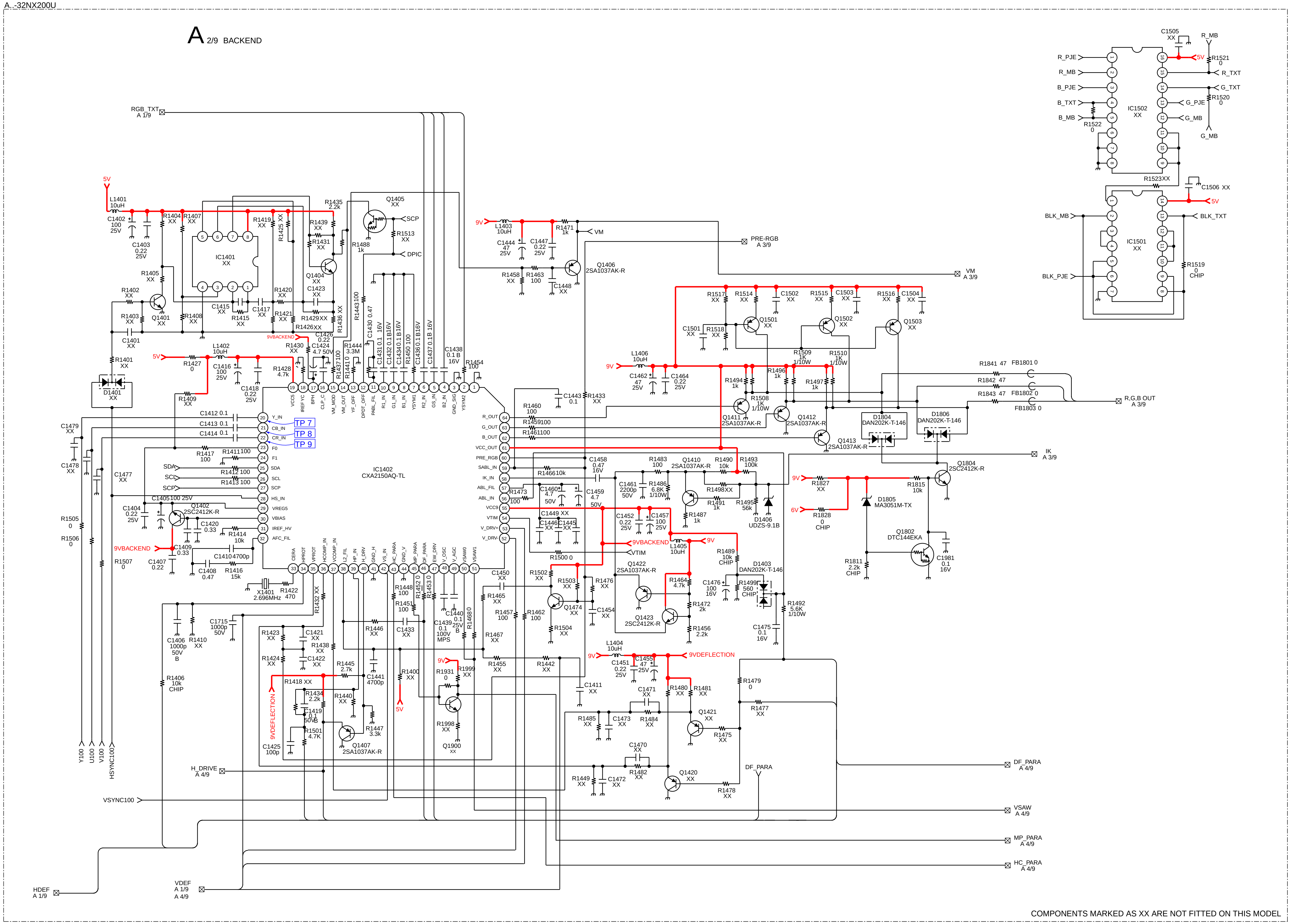

A..-32NX200U
CN2003
XX
GND
PJE R
PJE G
PJE B
GND
PJE BLK
GND
DISABLE
SCL
SDA
AUDIO MUTE
AUDIO PROT
AC ON/OFF
GND
CN2004
XX
VPROT
+12V
VS
+12V
HS
+12V
H PULSE
+12V
HD
GND
E/W
GND
VTIM
GND
H SHIFT
GND
VM
GND
ABL
GND
VD(-)
GND
VD(+)
HVPROT
WOOFER
LEFT
RIGHT
9V
+9V
12V
L1271
XX
L1272
100uH
C1275
100
25V
C1276
0.01
B
Q1272
2SC2412K-R
R1290
3.9k
CHIP
R1288
560
CHIP
R1289
6.8k
CHIP
C1283
47
16V
IC1270
MC3403NS-E20
OUTPUT AMP
R1250
XX
R1277
47k
R1278
47k
R1279
47k
R1280
150k
R1287
47k
C1282
10
50V
C1277
0.47
C1278
0.47
16V
R1251
XX
FB2015
XX
FB2016
XX
FB2017
XX
FB2018
XX
FB2002XX
FB2001XX
R_PJE
G_PJE
B_PJE
BLK_PJE
DISABLE
SCL
SDA
AV_MUTE
AV_PROT
AC_ON/OFF
R1281 47k
C1279
XX
R1282
XX
R1283
47k
C1281
0.47
16V
R1286
47k
R1284
47k
R1285
XX
C1280
XX
R1252
XX
FB2004 XX
VPROT
L2003 XX
VSYNC100
FB2005 XX
HSYNC100
FB2006 XX
AFC_PULSE
FB2010 XX
FB2008 XX
H_DRIVE
FB2009 XX
E/W
FB2014 XX
VTIM
FB2003 XX
H SHIFT
FB2020 XX
VM
FB2011 XX
ABL
FB2013 XX
VD(-)
FB2012 XX
VD(+)
X_RAY
FB2007 XX
HDEF
A 2/9
VDEF
A 2/9
A 4/9
JR1245 XX
JR1232 XX
JR1233 XX
JR1234 XX
JR1235 XX
JR1236 XX
JR1237 XX
JR1238
0
CF1270
6.5MHZ
L1270 10uH
Q1270
2SC2412K-R
R1270
330
CHIP
R1271 XX
C1270 47p
C1245 47p
C1271 47p
R1274
6.8k
C1273
100p
Q1271
2SC2412K-R
R1272
1k
R1273
6.8k
R1275
1k
C1274
39p
R1276
1k
QSS
FL1270
C1284
0.1
25V
B
C1239
4p
C1242
4p
X1231
18.432MHz
ACT5VD
5V_1
R1134
XX
R1135
0
CHIP
C1257
0.1
FL1232
EMI
C1255
0.1
C1252
47
25V
R1137 0
R1136 XX
SCL
SDA
R1260 100
R1261 100
FL1231
EMI
C1231
2200p
B
C1232
47
25V
C1234
4700p
B
R1234
22k
AUDIO RESET
IC1231
MSP3411G-QA-B10
NC
SCL
SDA
I2S CLOCK
I2S WS
I2S DATA OUT
I2S DATA IN
ADR DATA OUT
ADR WS
ADR CLOCK OUT
8VSUP
B GND
I2S DATA IN
POWER ON RESET
STANDBY Q
ADDRESS SELECT
DIGITAL CONTROL OUT 0
DIGITAL CONTROL OUT 1
AUDIO CLOCK OUT
XTAL OUT
XTAL IN
TP
TEST
IF IN 2
IF COMMON IN
IF IN 1
AVSUP
IFGND
MONO IN (AM)
REF VOLTAGE
SC1-IN-R
SC1-IN-L
ASGND1
SC2-IN-R
SC2-IN-L
ASGND2
SC3-IN-R
SC3-IN-L
ASGND4
FR-IN-R
FR-IN-L
A GND
SCB-OUT L
SCB-OUT R
VREFGND2
SPEAKER OUT R
SPEAKER OUT L
SUBWOOFER OUT
SC2-OUT-R
SC2-OUT-L
VREFGND1
SC1-OUT-R
SC1-OUT-L
HP CAP
AVSUP
SP CAP
C1256
0.47
C1290
4.7
C1258
0.1
AM
R1239 4.7k
MAIN-R
MAIN-L
R1240 4.7k
R1241 4.7k
DTV-R
DTV-L
R1256
4.7k
C1254
0.1
C1285
4.7
16V
ACT9V
9V
R1299
XX
L1233
10uH
R1237
47
1/4W
FPRD
R1238
0
C1249 10 50V
C1251
39p
D1239
MTZJ-T-77
8.2C
C1250
47
25V
C1247 10 50V
C1233
1
16V
C1235
1
16V
R1291
XX
C1294
XX
Q1268
XX
C1291
XX
R1292
XX
R1298
XX
R1293 0
D1235
UDZS-12B
D1237
UDZS-12B
D1236
UDZS-12B
D1238
UDZS-12B
R1294
XX
C1292
XX
Q1269
XX
C1293
XX
R1296
XX
R1295
XX
R1297
0
C1286
47
16V
C1289
47
16V
C1287
47
16V
C1288
47
16V
C1246
XX
C1236
2200p
B
C1264
2200p
B
C1265
2200p
B
C1240
XX
C1241
XX
C1244
XX
ATV-L
ATV-R
TV-L
TV-R
R_TXT
G_TXT
B_TXT
BLK_TXT
AUDIO.RESET
MAIN_L
MAIN_R
ATV-L
ATV-R
TV-L
TV-R
DTV-L
DTV-R
QSS
AM
RGB_TXT
A 2/9

A 1/9 AUDIO DECODER AND AMPLIFIER

COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL

~ A Board Schematic Diagram [Audio Decoder and Amplifier] Page 1/9 ~

A..-32NX200U

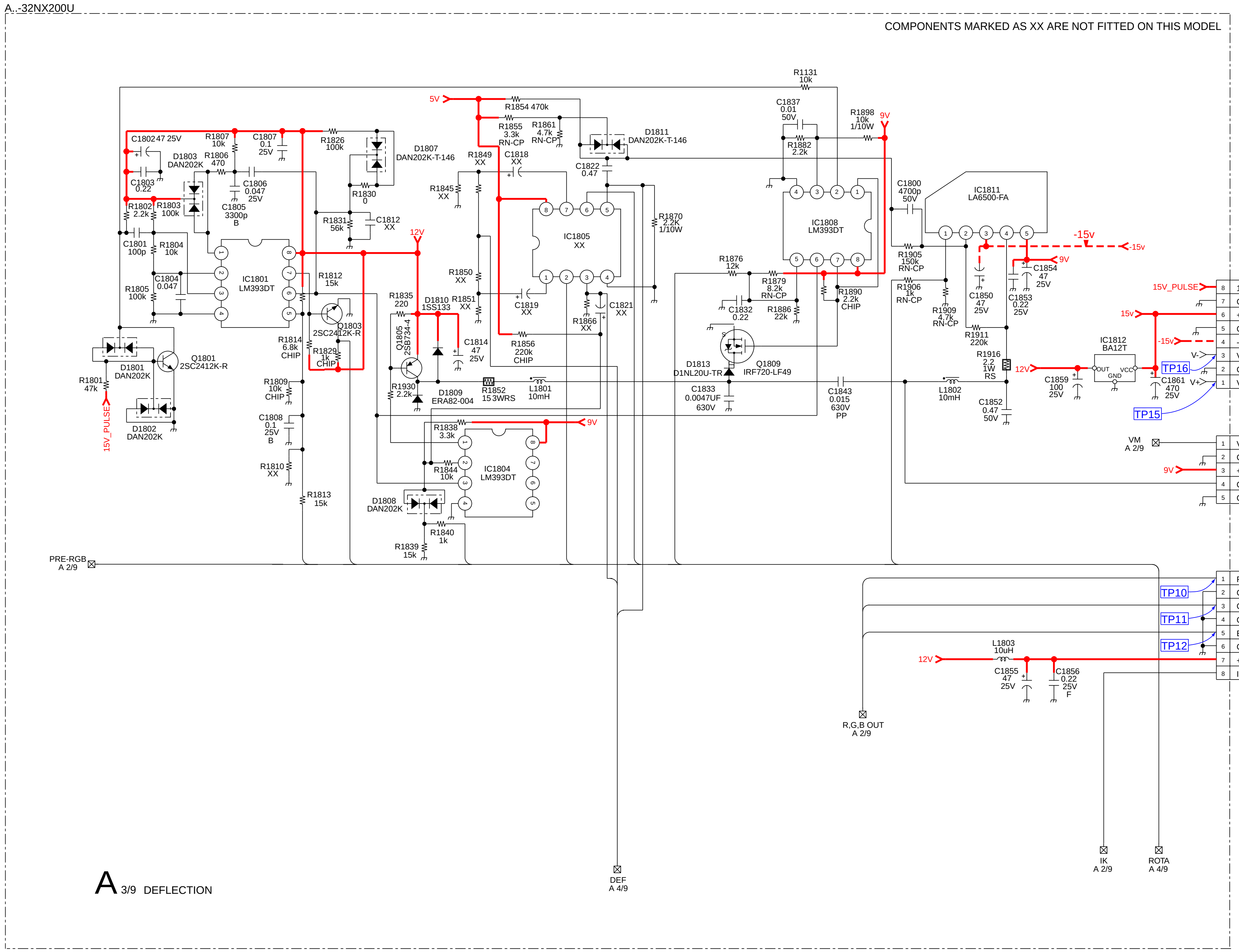

A 2/9 BACKEND
IC1402
CXA2150AQ-TL
IC1401
XX
IC1502
XX
IC1501
XX
Q1401
Q1402
2SC2412K-R
Q1404
Q1405
Q1406
2SA1037AK-R
Q1407
2SA1037AK-R
Q1410
2SA1037AK-R
Q1411
2SA1037AK-R
Q1412
2SA1037AK-R
Q1413
2SA1037AK-R
Q1420
Q1421
Q1422
2SA1037AK-R
Q1423
2SC2412K-R
Q1474
Q1501
Q1502
Q1503
Q1802
DTC144EKA
Q1804
2SC2412K-R
Q1900
D1401
D1403
DAN202K-T-146
D1406
UDZS-9.1B
D1804
DAN202K-T-146
D1805
MA3051M-TX
D1806
DAN202K-T-146
X1401
2.696MHz
RGB_TXT A 1/9
PRE-RGB A 3/9
VM A 3/9
R,G,B OUT A 3/9
IK A 3/9
DF_PARA A 4/9
VSAW A 4/9
MP_PARA A 4/9
HC_PARA A 4/9
H_DRIVE A 4/9
VSYNC100
HDEF A 1/9
VDEF A 1/9 A 4/9
Y100
U100
V100
HSYNC100
SCP
DPIC
VM
SDA
SCL
TP 7
TP 8
TP 9
5V
9V
6V
9VBACKEND
9VDEFLECTION
R_PJE
R_MB
B_PJE
B_TXT
B_MB
R_TXT
G_TXT
G_PJE
G_MB
BLK_MB
BLK_TXT
BLK_PJE
FB1801 0
FB1802 0
FB1803 0
L1401 10uH
L1402 10uH
L1403 10uH
L1404 10uH
L1405 10uH
L1406 10uH

COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL

~ A Board Schematic Diagram [Backend] Page 2/9 ~

A B C D E F G H I J K L M N O

1 2 3 4 5 6 7 8 9 10 11


A.-32NX200U
COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL
R1131 10k
5V
R1854 470k
R1855 3.3k RN-CP
R1861 4.7k RN-CP
D1811 DAN202K-T-146
C1837 0.01 50V
R1882 2.2k
R1898 10k 1/10W
9V
C1802 47 25V
R1807 10k
C1807 0.1 25V
R1826 100k
D1807 DAN202K-T-146
R1849 XX
C1818 XX
C1822 0.47
D1803 DAN202K
R1806 470
C1806 0.047 25V
C1805 3300p B
C1803 0.22
R1802 2.2k
R1803 100k
R1830 0
R1845 XX
R1870 2.2K 1/10W
C1800 4700p 50V
IC1811 LA6500-FA
R1831 56k
C1812 XX
IC1805 XX
IC1808 LM393DT
C1801 100p
R1804 10k
IC1801 LM393DT
12V
-15v
R1905 150k RN-CP
C1854 47 25V
CN1802 8P WHT
R1805 100k
C1804 0.047
R1812 15k
R1850 XX
R1876 12k
R1879 8.2k RN-CP
R1890 2.2k CHIP
R1906 1k RN-CP
C1850 47 25V
C1853 0.22 25V
15V_PULSE
R1835 220
D1810 1SS133
R1851 XX
C1819 XX
C1821 XX
R1866 XX
C1832 0.22
R1886 22k
R1909 4.7k RN-CP
Q1803 2SC2412K-R
R1814 6.8k CHIP
R1829 1k CHIP
Q1805 2SB734-4
C1814 47 25V
R1856 220k CHIP
D1813 D1NL20U-TR
Q1809 IRF720-LF49
R1911 220k
R1916 2.2 1W RS
IC1812 BA12T
TP16
TP15
C1861 470 25V
C1859 100 25V
Q1801 2SC2412K-R
D1801 DAN202K
R1801 47k
R1809 10k CHIP
R1930 2.2k
D1809 ERA82-004
R1852 15 3WRS
L1801 10mH
C1833 0.0047UF 630V
C1843 0.015 630V PP
L1802 10mH
C1852 0.47 50V
D1802 DAN202K
C1808 0.1 25V B
R1838 3.3k
IC1804 LM393DT
R1844 10k
R1810 XX
R1813 15k
D1808 DAN202K
R1840 1k
R1839 15k
CN1803 5P WHT
VM A 2/9
PRE-RGB A 2/9
CN1804 8P WHT
TP10
TP11
TP12
L1803 10uH
C1855 47 25V
C1856 0.22 25V F
R,G,B OUT A 2/9
DEF A 4/9
IK A 2/9
ROTA A 4/9
A 3/9 DEFLECTION

CN1802	
8	15V_PULSE
7	GND
6	+15V
5	GND
4	-15v
3	V-
2	GND
1	V+

TO D1 BOARD
CN8612

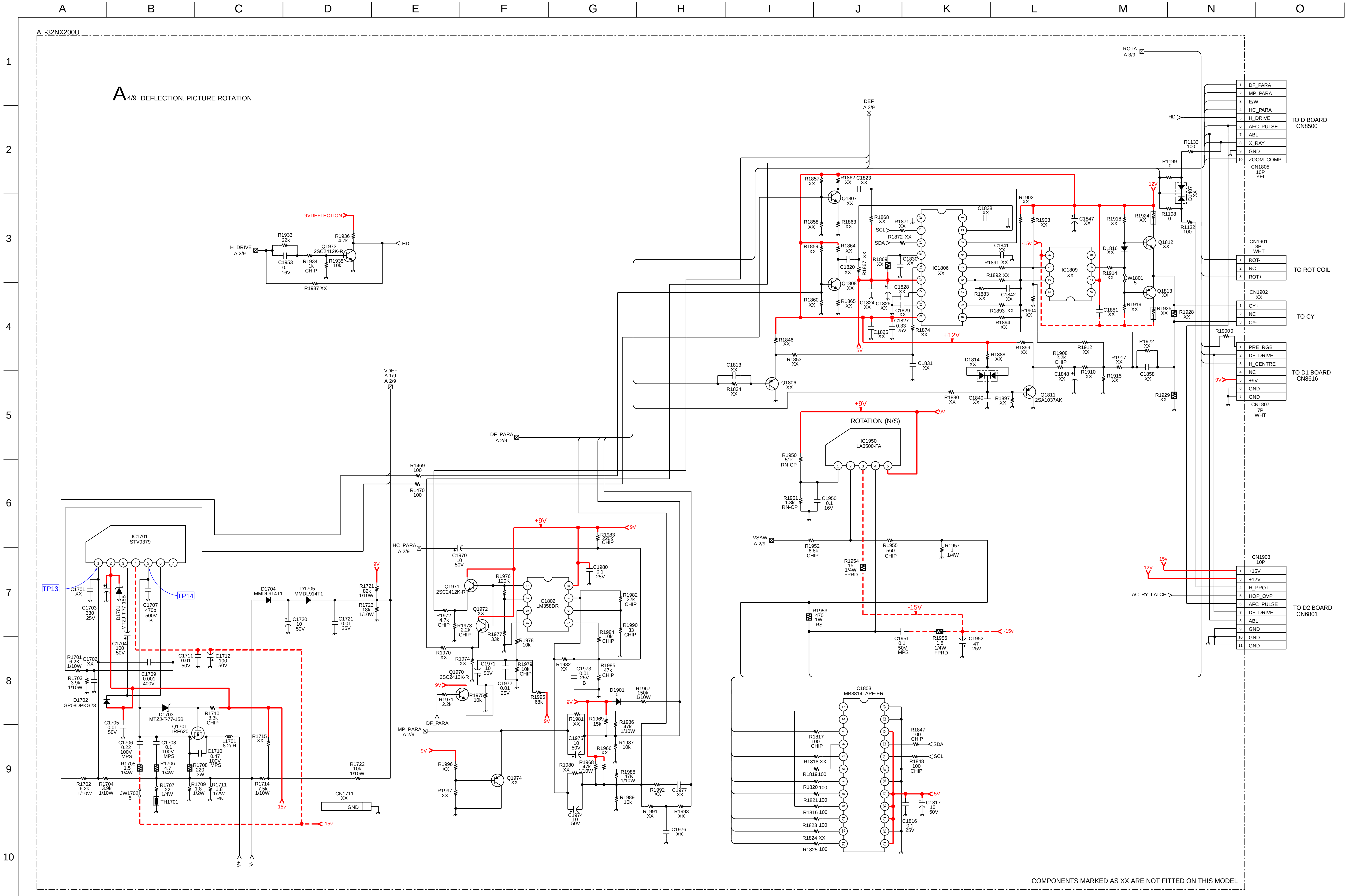
CN1803	
1	VM
2	GND
3	+9V
4	QP-
5	GND

TO VM BOARD
CN5602

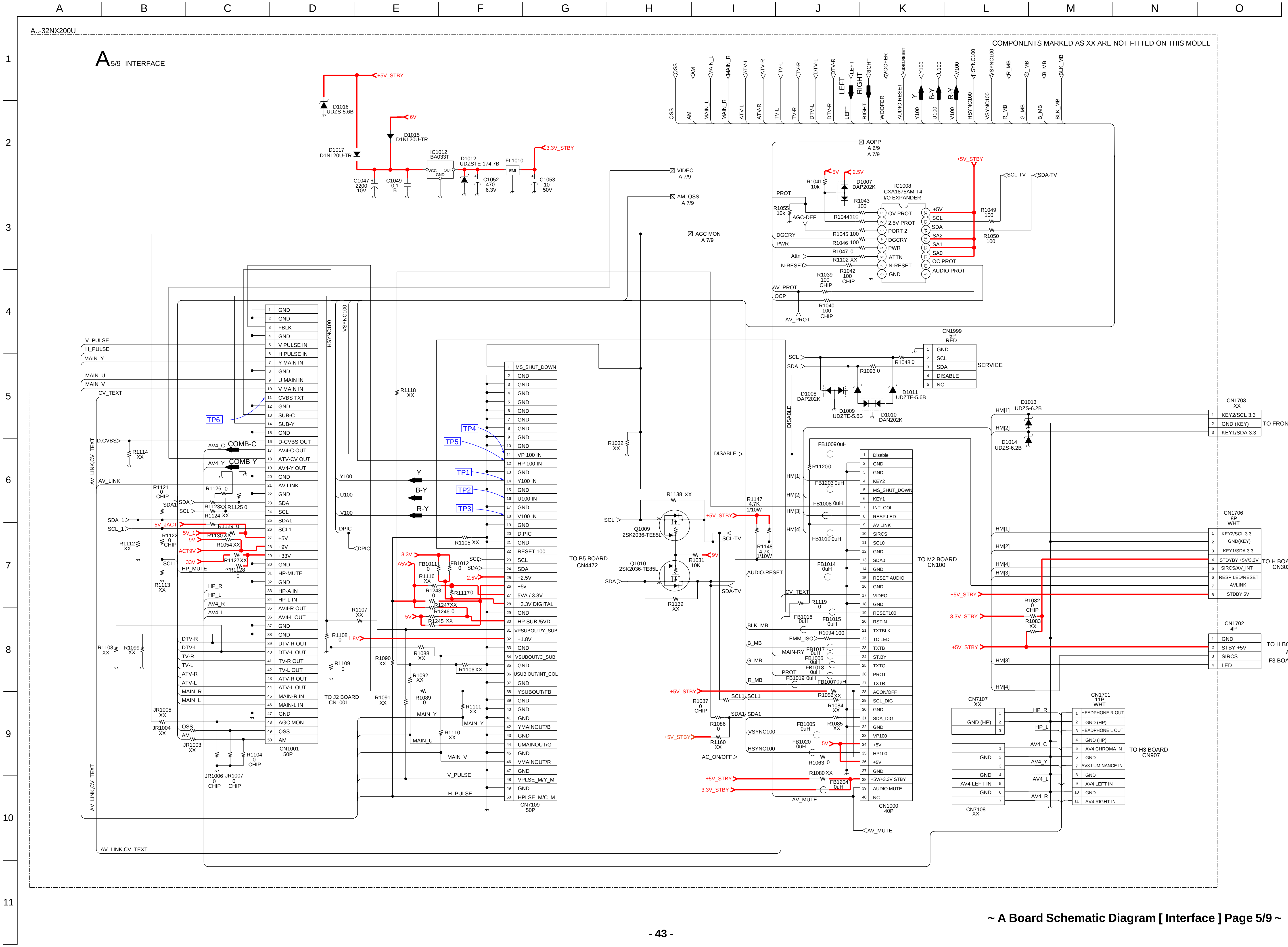
CN1804	
1	R_OUT
2	GND
3	G_OUT
4	GND
5	B_OUT
6	GND
7	+12v
8	IK

TO C1 BOARD
CN9001

~ A Board Schematic Diagram [Deflection] Page 3/9 ~

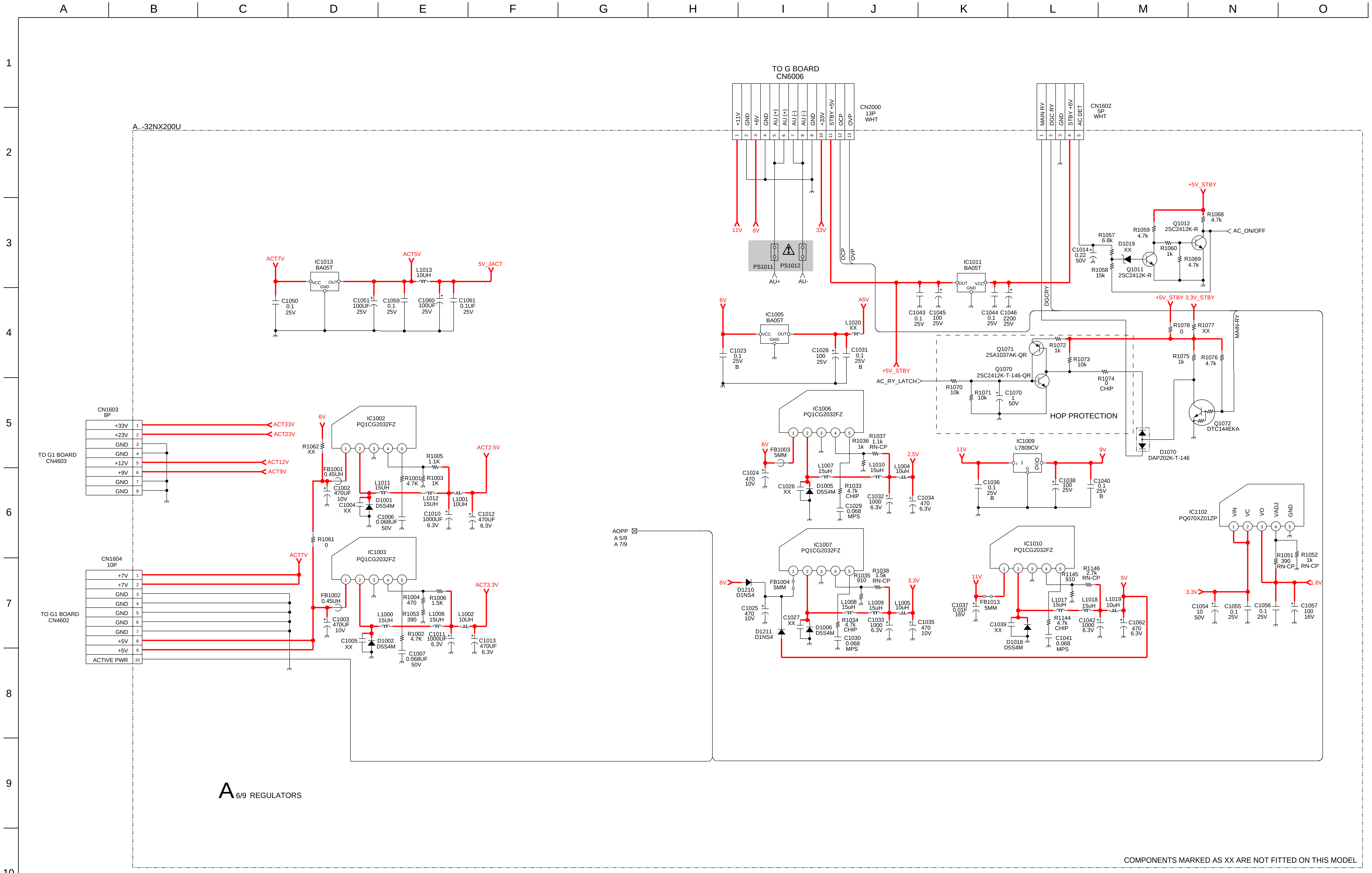

A-32NX200U
A 4/9 DEFLECTION, PICTURE ROTATION
IC1701 STV9379
IC1802 LM358DR
IC1806
IC1809
IC1950 LA6500-FA
ROTATION (N/S)
IC1803 MB88141APF-ER
Q1973 2SC2412K-R
Q1971 2SC2412K-R
Q1970 2SC2412K-R
Q1701 IRF620
Q1811 2SA1037AK
D1704 MMDL914T1
D1705 MMDL914T1
D1702 GP08DPKG23
D1703 MTZJ-T-77-15B
H_DRIVE A 2/9
HD
VDEF A 1/9 A 2/9
DF_PARA A 2/9
HC_PARA A 2/9
MP_PARA A 2/9
VSAW A 2/9
DEF A 3/9
ROTA A 3/9
9VDEFLECTION
+9V
+12V
-15V
5V
TP13
TP14
CN1805 10P YEL
TO D BOARD CN8500
DF_PARA
MP_PARA
E/W
HC_PARA
H_DRIVE
AFC_PULSE
ABL
X_RAY
GND
ZOOM_COMP
CN1901 3P WHT
TO ROT COIL
ROT-
NC
ROT+
CN1902 XX
TO CY
CY+
NC
CY-
CN1807 7P WHT
TO D1 BOARD CN8616
PRE_RGB
DF_DRIVE
H_CENTRE
NC
+9V
GND
GND
CN1903 10P
TO D2 BOARD CN6801
+15V
+12V
H_PROT
HOP_OVP
AFC_PULSE
DF_DRIVE
ABL
GND
GND
GND
AC_RY_LATCH
SDA
SCL
CN1711 XX
GND
COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL

~ A Board Schematic Diagram [Deflection, Picture Rotation] Page 4/9 ~


A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
1
2
3
4
5
6
7
8
9
10
11
A..-32NX200U
A 5/9 INTERFACE
+5V_STBY
6V
3.3V_STBY
D1016 UDZS-5.6B
D1015 D1NL20U-TR
D1017 D1NL20U-TR
IC1012 BA033T
D1012 UDZSTE-174.7B
FL1010
C1047 2200 10V
C1049 0.1 B
C1052 470 6.3V
C1053 10 50V
VIDEO A 7/9
AM, QSS A 7/9
AGC MON A 7/9
AOPP A 6/9 A 7/9
IC1008 CXA1875AM-T4 I/O EXPANDER
R1041 10k
D1007 DAP202K
R1043 100
R1055 10k
PROT
AGC-DEF
DGCRY
PWR
Attn
N-RESET
AV_PROT
OCP
OV PROT
2.5V PROT
PORT 2
ATTN
AUDIO PROT
OC PROT
SCL
SDA
SA2
SA1
SA0
R1049 100
R1050 100
SCL-TV
SDA-TV
QSS
AM
MAIN_L
MAIN_R
ATV-L
ATV-R
TV-L
TV-R
DTV-L
DTV-R
LEFT
RIGHT
WOOFER
AUDIO.RESET
Y100
U100
V100
HSYNC100
VSYNC100
R_MB
G_MB
B_MB
BLK_MB
CN1999 5P RED
SERVICE
DISABLE
NC
D1008 DAP202K
D1009 UDZTE-5.6B
D1010 DAN202K
D1011 UDZTE-5.6B
V_PULSE
H_PULSE
MAIN_Y
MAIN_U
MAIN_V
CV_TEXT
TP1
TP2
TP3
TP4
TP5
TP6
COMB-C
COMB-Y
AV_LINK
AV_LINK,CV_TEXT
D.CVBS
AV4_C
AV4_Y
SDA_1
SCL_1
5V_JACT
ACT9V
HP_MUTE
HP_R
HP_L
AV4_R
AV4_L
DTV-R
DTV-L
TV-R
TV-L
ATV-R
ATV-L
MAIN_R
MAIN_L
JR1005 XX
JR1004 XX
JR1003 XX
JR1006 0 CHIP
JR1007 0 CHIP
R1104 0 CHIP
CN1001 50P
TO J2 BOARD CN1001
CN7109 50P
TO B5 BOARD CN4472
Y
B-Y
R-Y
DPIC
Q1009 2SK2036-TE85L
Q1010 2SK2036-TE85L
R1138 XX
R1139 XX
R1147 4.7K 1/10W
R1148 4.7K 1/10W
R1031 10K
R1032 XX
SCL-TV
SDA-TV
9V
CN1000 40P
TO M2 BOARD CN100
AV_MUTE
AC_ON/OFF
EMM_ISO
MAIN-RY
CN1703 XX
TO FRONT CONTROL
KEY2/SCL 3.3
GND (KEY)
KEY1/SDA 3.3
D1013 UDZS-6.2B
D1014 UDZS-6.2B
CN1706 8P WHT
TO H BOARD CN302
CN1702 4P
TO H BOARD CN301 AND F3 BOARD CN2151
STBY +5V
SIRCS
LED
CN7107 XX
CN7108 XX
CN1701 11P WHT
TO H3 BOARD CN907
HEADPHONE R OUT
HEADPHONE L OUT
AV4 CHROMA IN
AV3 LUMINANCE IN
AV4 LEFT IN
AV4 RIGHT IN
GND (HP)

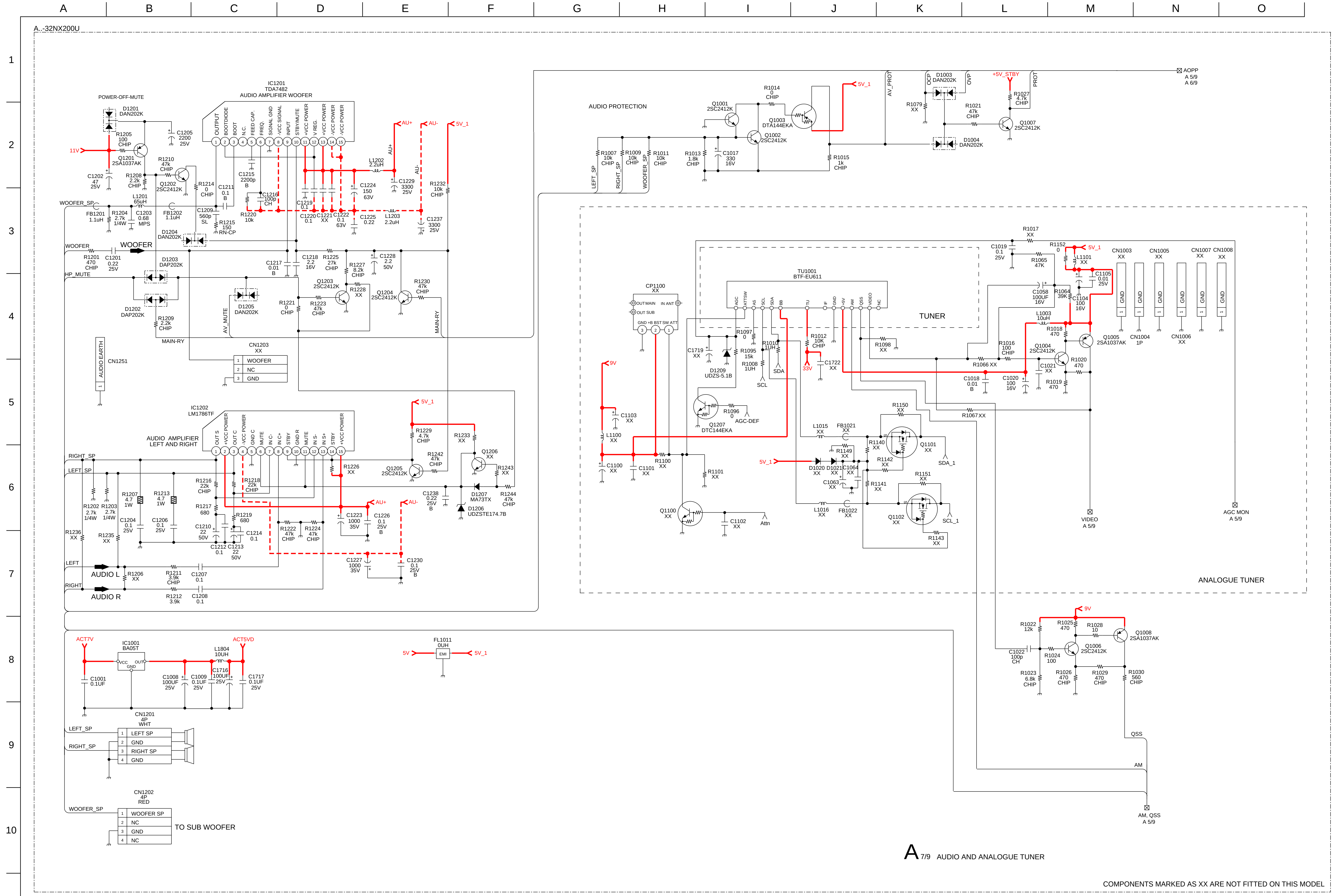
COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL

~ A Board Schematic Diagram [Interface] Page 5/9 ~


A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
1
2
3
4
5
6
7
8
9
10
11
A..-32NX200U
TO G BOARD
CN6006
+11V
GND
+6V
GND
AU (+)
AU (+)
AU (-)
GND
+33V
STBY +5V
OCP
OVP
CN2000
13P
WHT
MAIN RY
DGC RY
GND
STBY +6V
AC DET
CN1602
5P
WHT
11V
6V
33V
PS1011
PS1012
AU+
AU-
OCP
OVP
DGCRY
+5V_STBY
R1068
4.7k
Q1012
2SC2412K-R
R1059
4.7k
AC_ON/OFF
R1057
6.8k
C1014
0.22
50V
D1019
XX
R1060
1k
R1069
4.7k
R1058
15k
Q1011
2SC2412K-R
IC1011
BA05T
C1043
0.1
25V
C1045
100
25V
C1044
0.1
25V
C1046
2200
25V
+5V_STBY 3.3V_STBY
MAIN-RY
R1078
0
R1077
XX
R1075
1k
R1076
4.7k
Q1071
2SA1037AK-QR
R1072
1k
R1073
10k
Q1070
2SC2412K-T-146-QR
R1074
0
CHIP
AC_RY_LATCH
R1070
10k
R1071
10k
C1070
1
50V
HOP PROTECTION
Q1072
DTC144EKA
D1070
DAP202K-T-146
ACT7V
IC1013
BA05T
ACT5V
L1013
10UH
5V_JACT
C1050
0.1
25V
C1051
100UF
25V
C1059
0.1
25V
C1060
100UF
25V
C1061
0.1UF
25V
6V
A5V
IC1005
BA05T
L1020
XX
C1023
0.1
25V
B
C1028
100
25V
C1031
0.1
25V
B
+5V_STBY
CN1603
8P
TO G1 BOARD
CN4603
+33V
+23V
GND
GND
+12V
+9V
GND
GND
ACT33V
ACT23V
ACT12V
ACT9V
IC1002
PQ1CG2032FZ
R1062
XX
FB1001
0.45UH
C1002
470UF
10V
C1004
XX
L1011
15UH
D1001
D5S4M
C1006
0.068UF
50V
R1005
1.1K
R1001
4.7K
R1003
1K
L1012
15UH
L1001
10UH
C1010
1000UF
6.3V
ACT2.5V
C1012
470UF
6.3V
R1061
0
CN1604
10P
TO G1 BOARD
CN4602
+7V
+7V
GND
GND
GND
GND
GND
+5V
+5V
ACTIVE PWR
ACT7V
IC1003
PQ1CG2032FZ
FB1002
0.45UH
C1003
470UF
10V
C1005
XX
L1000
15UH
D1002
D5S4M
R1004
470
R1006
1.5K
R1053
390
L1006
15UH
R1002
4.7K
C1011
1000UF
6.3V
C1007
0.068UF
50V
L1002
10UH
ACT3.3V
C1013
470UF
6.3V
AOPP
A 5/9
A 7/9
IC1006
PQ1CG2032FZ
FB1003
5MM
C1024
470
10V
C1026
XX
L1007
15uH
D1005
D5S4M
R1036
1k
R1037
1.1k
RN-CP
R1033
4.7k
CHIP
L1010
15uH
C1029
0.068
MPS
C1032
1000
6.3V
L1004
10uH
2.5V
C1034
470
6.3V
11V
IC1009
L7809CV
9V
C1036
0.1
25V
B
C1038
100
25V
C1040
0.1
25V
B
IC1102
PQ070XZ01ZP
VIN
VC
VO
VADJ
GND
R1051
390
RN-CP
R1052
1k
RN-CP
3.3V
1.8V
C1054
10
50V
C1055
0.1
25V
C1056
0.1
25V
C1057
100
16V
IC1007
PQ1CG2032FZ
D1210
D1NS4
FB1004
5MM
C1025
470
10V
D1211
D1NS4
C1027
XX
L1008
15uH
D1006
D5S4M
R1035
910
R1038
1.5k
RN-CP
R1034
4.7k
CHIP
L1009
15uH
C1030
0.068
MPS
C1033
1000
6.3V
L1005
10uH
3.3V
C1035
470
10V
IC1010
PQ1CG2032FZ
C1037
0.01F
16V
FB1013
5MM
C1039
XX
D1018
D5S4M
R1145
910
R1146
2.7k
RN-CP
L1017
15uH
R1144
4.7k
CHIP
L1018
15uH
C1041
0.068
MPS
C1042
1000
6.3V
L1019
10uH
5V
C1062
470
6.3V
A 6/9 REGULATORS

COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL

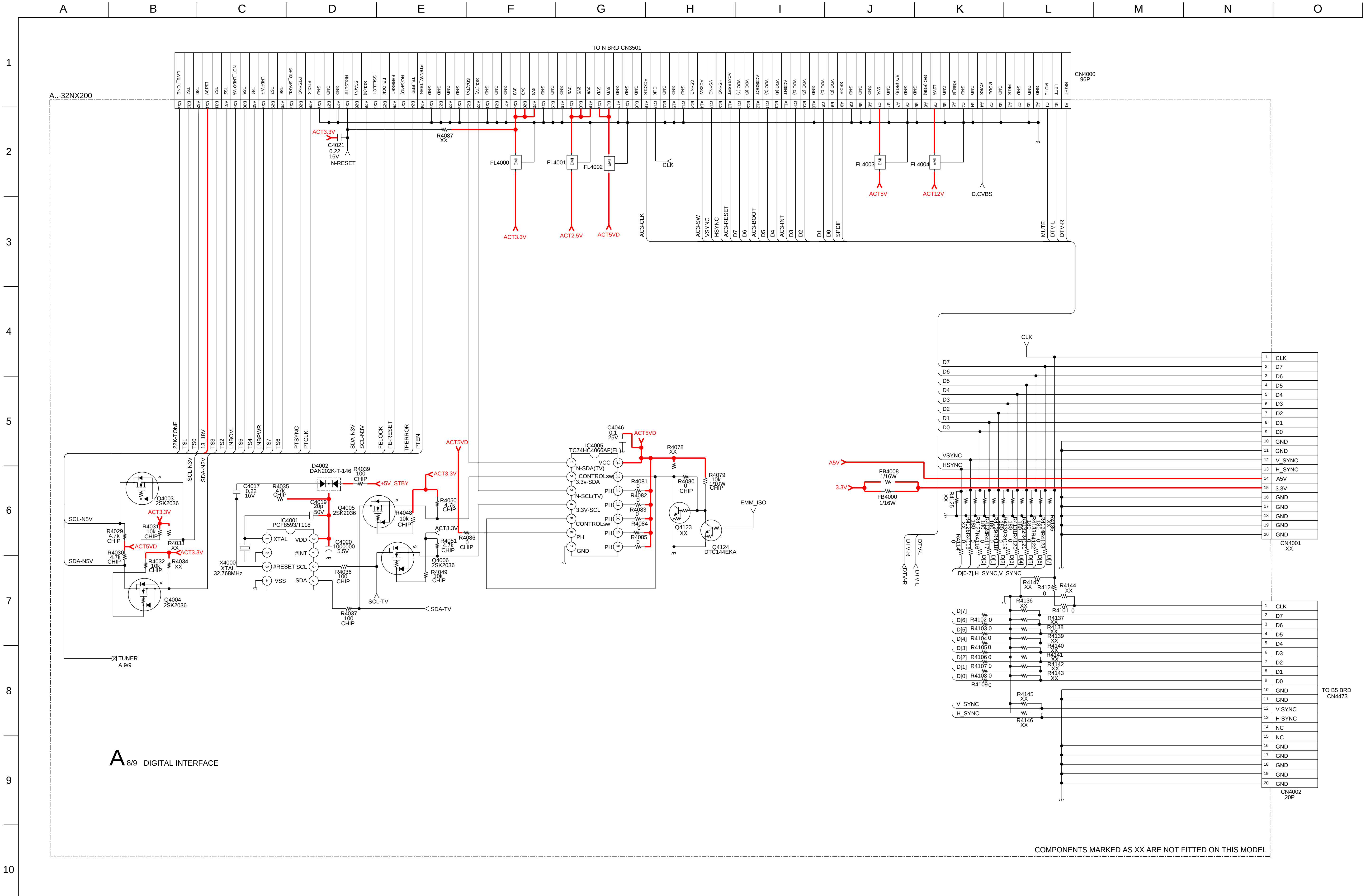
~ A Board Schematic Diagram [Regulators] Page 6/9 ~


A..-32NX200U
POWER-OFF-MUTE
D1201 DAN202K
C1205 2200 25V
R1205 100 CHIP
Q1201 2SA1037AK
11V
C1202 47 25V
R1208 2.2k CHIP
R1210 47k CHIP
Q1202 2SC2412K
R1214 0 CHIP
WOOFER_SP
L1201 65uH
FB1201 1.1uH
R1204 2.7k 1/4W
C1203 0.68 MPS
FB1202 1.1uH
D1204 DAN202K
WOOFER
R1201 470 CHIP
C1201 0.22 25V
D1203 DAP202K
HP_MUTE
D1202 DAP202K
R1209 2.2k CHIP
MAIN-RY
IC1201 TDA7482 AUDIO AMPLIFIER WOOFER
OUTPUT
BOOTDIODE
BOOT
N.C.
FEED CAP.
FREQ.
SIGNAL GND
-VCC SIGNAL
INPUT
STBY/MUTE
-VCC POWER
V REG.
+VCC POWER
-VCC POWER
-VCC POWER
C1211 0.1 B
C1209 560p SL
R1215 150 RN-CP
C1215 2200p B
C1216 100p CH
R1220 10k
C1219 0.1
C1220 0.1
C1221 XX
C1222 0.1 63V
C1224 150 63V
C1225 0.22
L1202 2.2uH
L1203 2.2uH
C1229 3300 25V
C1237 3300 25V
R1232 10k CHIP
AU+
AU-
5V_1
C1217 0.01 B
C1218 2.2 16V
R1225 27k CHIP
R1227 8.2k CHIP
C1228 2.2 50V
Q1203 2SC2412K
R1228 XX
R1221 0 CHIP
R1223 47k CHIP
Q1204 2SC2412K
R1230 47k CHIP
D1205 DAN202K
AV_MUTE
MAIN-RY
CN1203 XX
WOOFER
NC
GND
AUDIO EARTH
CN1251
IC1202 LM1786TF
AUDIO AMPLIFIER LEFT AND RIGHT
OUT S
+VCC POWER
OUT C
-VCC POWER
GND C
MUTE
IN C-
IN C+
STBY
GND R
MUTE
IN S-
IN S+
STBY
+VCC POWER
RIGHT_SP
LEFT_SP
R1207 4.7 1W
R1213 4.7 1W
R1202 2.7k 1/4W
R1203 2.7k 1/4W
C1204 0.1 25V
C1206 0.1 25V
R1236 XX
R1235 XX
R1216 22k CHIP
R1218 22k CHIP
R1217 680
R1219 680
C1210 22 50V
C1214 0.1
C1212 0.1
C1213 22 50V
R1222 47k CHIP
R1224 47k CHIP
R1226 XX
R1229 4.7k CHIP
R1233 XX
R1242 47k CHIP
Q1205 2SC2412K
Q1206 XX
R1243 XX
C1223 1000 35V
C1226 0.1 25V B
C1238 0.22 25V B
D1207 MA73TX
D1206 UDZSTE174.7B
R1244 47k CHIP
C1227 1000 35V
C1230 0.1 25V B
LEFT
AUDIO L
R1206 XX
R1211 3.9k CHIP
C1207 0.1
RIGHT
AUDIO R
R1212 3.9k
C1208 0.1
ACT7V
IC1001 BA05T
VCC OUT GND
C1001 0.1UF
C1008 100UF 25V
C1009 0.1UF 25V
L1804 10UH
C1716 100UF 25V
ACT5VD
C1717 0.1UF 25V
FL1011 0UH
EMI
5V
5V_1
CN1201 4P WHT
LEFT_SP
RIGHT_SP
LEFT SP
GND
RIGHT SP
GND
CN1202 4P RED
WOOFER_SP
WOOFER SP
NC
GND
NC
TO SUB WOOFER
AUDIO PROTECTION
R1007 10k CHIP
R1009 10k CHIP
R1011 10k CHIP
LEFT_SP
RIGHT_SP
WOOFER_SP
R1013 1.8k CHIP
C1017 330 16V
Q1001 2SC2412K
R1014 0 CHIP
Q1003 DTA144EKA
Q1002 2SC2412K
R1015 1k CHIP
5V_1
AV_PROT
OCP
D1003 DAN202K
OVP
+5V_STBY
PROT
R1079 XX
R1021 47k CHIP
R1027 4.7k CHIP
Q1007 2SC2412K
D1004 DAN202K
AOPP A 5/9 A 6/9
R1017 XX
C1019 0.1 25V
R1152 0
5V_1
R1065 47K
L1101 XX
C1105 0.01 25V
CN1003 XX
CN1005 XX
CN1007 XX
CN1008 XX
GND
TU1001 BTF-EU611
AGC
ATTSW
AS
SCL
SDA
BB
TU
IF
GND
5V
AM
QSS
VIDEO
NC
TUNER
CP1100 XX
OUT MAIN
IN ANT
OUT SUB
GND +B BST SW ATT
C1058 100UF 16V
R1064 39K
C1104 100 16V
L1003 10uH
R1018 470
Q1005 2SA1037AK
CN1004 1P
CN1006 XX
R1016 100 CHIP
Q1004 2SC2412K
R1066 XX
C1021 XX
R1020 470
C1018 0.01 B
C1020 100 16V
R1019 470
R1097 0
C1719 XX
R1095 15k
R1010 1UH
R1012 10K CHIP
33V
C1722 XX
R1098 XX
R1008 1UH
SDA
SCL
D1209 UDZS-5.1B
9V
C1103 XX
L1100 XX
R1096 0
AGC-DEF
Q1207 DTC144EKA
C1100 XX
C1101 XX
R1100 XX
R1101 XX
Q1100 XX
C1102 XX
Attn
R1067 XX
R1150 XX
L1015 XX
FB1021 XX
R1140 XX
R1149 XX
Q1101 XX
5V_1
D1020 XX
D1021 XX
C1064 XX
R1142 XX
SDA_1
C1063 XX
R1141 XX
R1151 XX
L1016 XX
FB1022 XX
Q1102 XX
SCL_1
R1143 XX
VIDEO A 5/9
AGC MON A 5/9
ANALOGUE TUNER
9V
R1022 12k
R1025 470
R1028 10
Q1008 2SA1037AK
C1022 100p CH
R1024 100
Q1006 2SC2412K
R1023 6.8k CHIP
R1026 470 CHIP
R1029 470 CHIP
R1030 560 CHIP
QSS
AM
AM, QSS A 5/9

A 7/9 AUDIO AND ANALOGUE TUNER

COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL

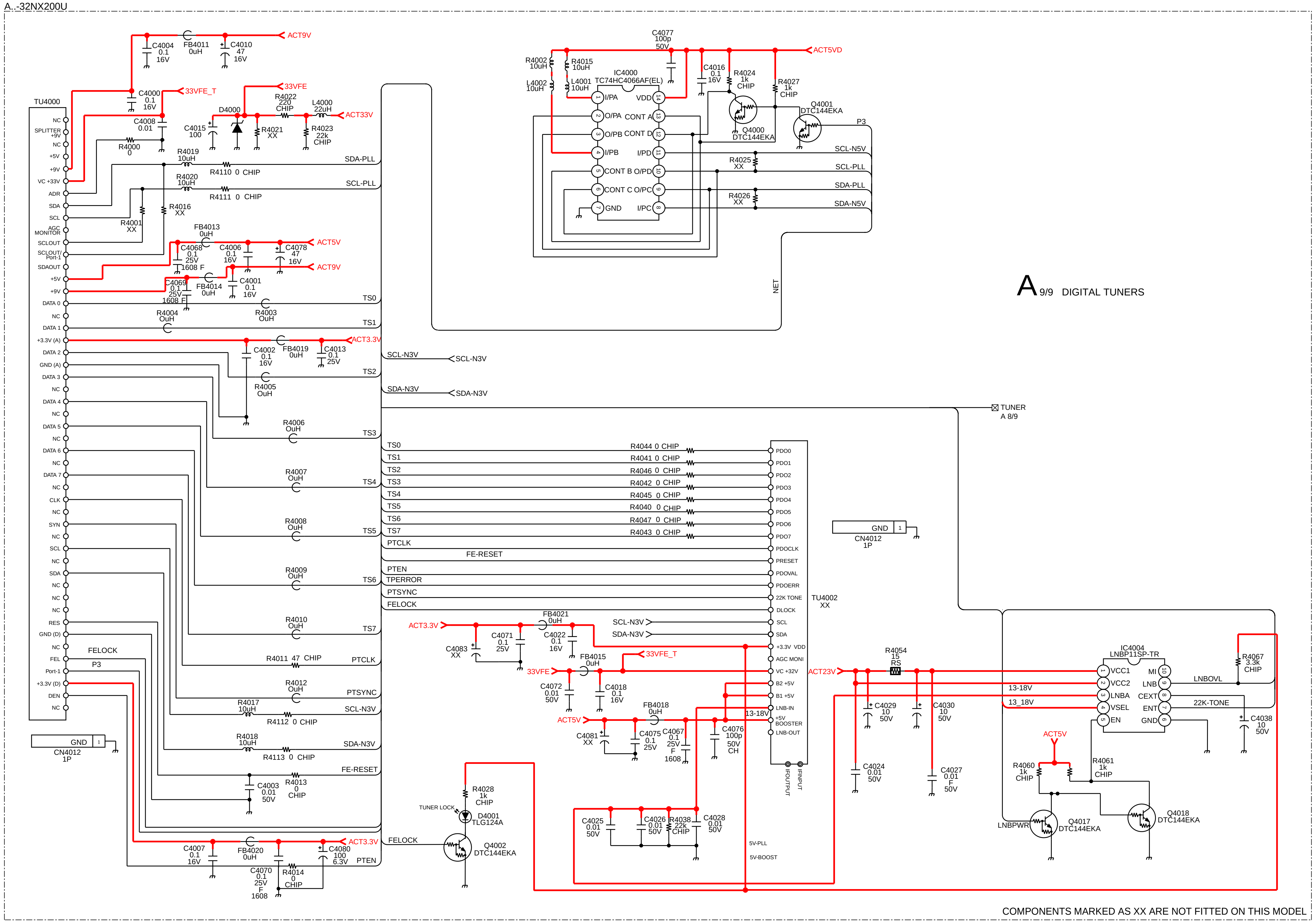
~ A Board Schematic Diagram [Audio and Analogue Tuner] Page 7/9 ~



A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
1
2
3
4
5
6
7
8
9
10
A..-32NX200
TO N BRD CN3501
CN4000
96P
ACT3.3V
C4021
0.22
16V
N-RESET
R4087
XX
FL4000
FL4001
FL4002
CLK
FL4003
FL4004
ACT5V
ACT12V
D.CVBS
ACT3.3V
ACT2.5V
ACT5VD
AC3-CLK
AC3-SW
VSYNC
HSYNC
AC3-RESET
D7
D6
D5
AC3-BOOT
D4
AC3-INT
D3
D2
D1
D0
SPDIF
MUTE
DTV-L
DTV-R
22K-TONE
TS1
TS0
13_18V
TS3
TS2
LNBOVL
TS5
TS4
LNBPWR
TS7
TS6
PTSYNC
PTCLK
SDA-N3V
SCL-N3V
FELOCK
FE-RESET
TPERROR
PTEN
SCL-N3V
SDA-N3V
Q4003
2SK2036
ACT3.3V
SCL-N5V
R4029
4.7k
CHIP
R4031
10k
CHIP
R4033
XX
ACT5VD
ACT3.3V
R4030
4.7k
CHIP
SDA-N5V
R4032
10k
CHIP
R4034
XX
Q4004
2SK2036
TUNER
A 9/9
D4002
DAN202K-T-146
R4039
100
CHIP
+5V_STBY
ACT5VD
ACT3.3V
C4017
0.22
16V
R4035
4.7k
CHIP
C4019
20p
50V
Q4005
2SK2036
R4048
10k
CHIP
R4050
4.7k
CHIP
IC4001
PCF8593/T118
XTAL
VDD
#INT
#RESET
SCL
VSS
SDA
C4020
1000000
5.5V
X4000
XTAL
32.768MHz
ACT3.3V
R4051
4.7k
CHIP
R4086
0
CHIP
Q4006
2SK2036
R4049
10k
CHIP
R4036
100
CHIP
SCL-TV
SDA-TV
R4037
100
CHIP
C4046
0.1
25V
ACT5VD
IC4005
TC74HC4066AF(EL)
VCC
N-SDA(TV)
CONTROLsw
3.3v-SDA
N-SCL(TV)
3.3V-SCL
CONTROLsw
PH
GND
R4081
0
R4082
0
R4083
0
R4084
0
R4085
0
R4078
XX
R4080
0
CHIP
R4079
10k
1/10W
CHIP
EMM_ISO
Q4123
XX
Q4124
DTC144EKA
CLK
A5V
3.3V
FB4008
1/16W
FB4000
1/16W
DTV-R
DTV-L
CN4001
XX
CLK
D7
D6
D5
D4
D3
D2
D1
D0
GND
GND
V_SYNC
H_SYNC
A5V
3.3V
GND
GND
GND
GND
GND
D[0-7],H_SYNC,V_SYNC
R4147
XX
R4124
0
R4144
XX
R4136
XX
R4101 0
D[7]
D[6] R4102 0
D[5] R4103 0
D[4] R4104 0
D[3] R4105 0
D[2] R4106 0
D[1] R4107 0
D[0] R4108 0
R4109 0
R4137
XX
R4138
XX
R4139
XX
R4140
XX
R4141
XX
R4142
XX
R4143
XX
R4145
XX
V_SYNC
H_SYNC
R4146
XX
CLK
D7
D6
D5
D4
D3
D2
D1
D0
GND
GND
V SYNC
H SYNC
NC
NC
GND
GND
GND
GND
GND
CN4002
20P
TO B5 BRD
CN4473
A 8/9 DIGITAL INTERFACE
COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL

~ A Board Schematic Diagram [Digital Interface] Page 8/9 ~

A.-32NX200U



TU4000
TU4002 XX
IC4000 TC74HC4066AF(EL)
IC4004 LNBP11SP-TR
CN4012 1P
Q4000 DTC144EKA
Q4001 DTC144EKA
Q4002 DTC144EKA
Q4017 DTC144EKA
Q4018 DTC144EKA
D4000
D4001 TLG124A
TUNER LOCK
ACT9V
ACT33V
ACT5VD
ACT5V
ACT3.3V
ACT23V
33VFE
33VFE_T
SCL-N3V
SDA-N3V
SCL-N5V
SDA-N5V
SCL-PLL
SDA-PLL
TUNER A 8/9
NET
P3
FELOCK
FE-RESET
PTCLK
PTEN
TPERROR
PTSYNC
TS0
TS1
TS2
TS3
TS4
TS5
TS6
TS7
LNBPWR
LNBOVL
22K-TONE
13-18V

A 9/9 DIGITAL TUNERS

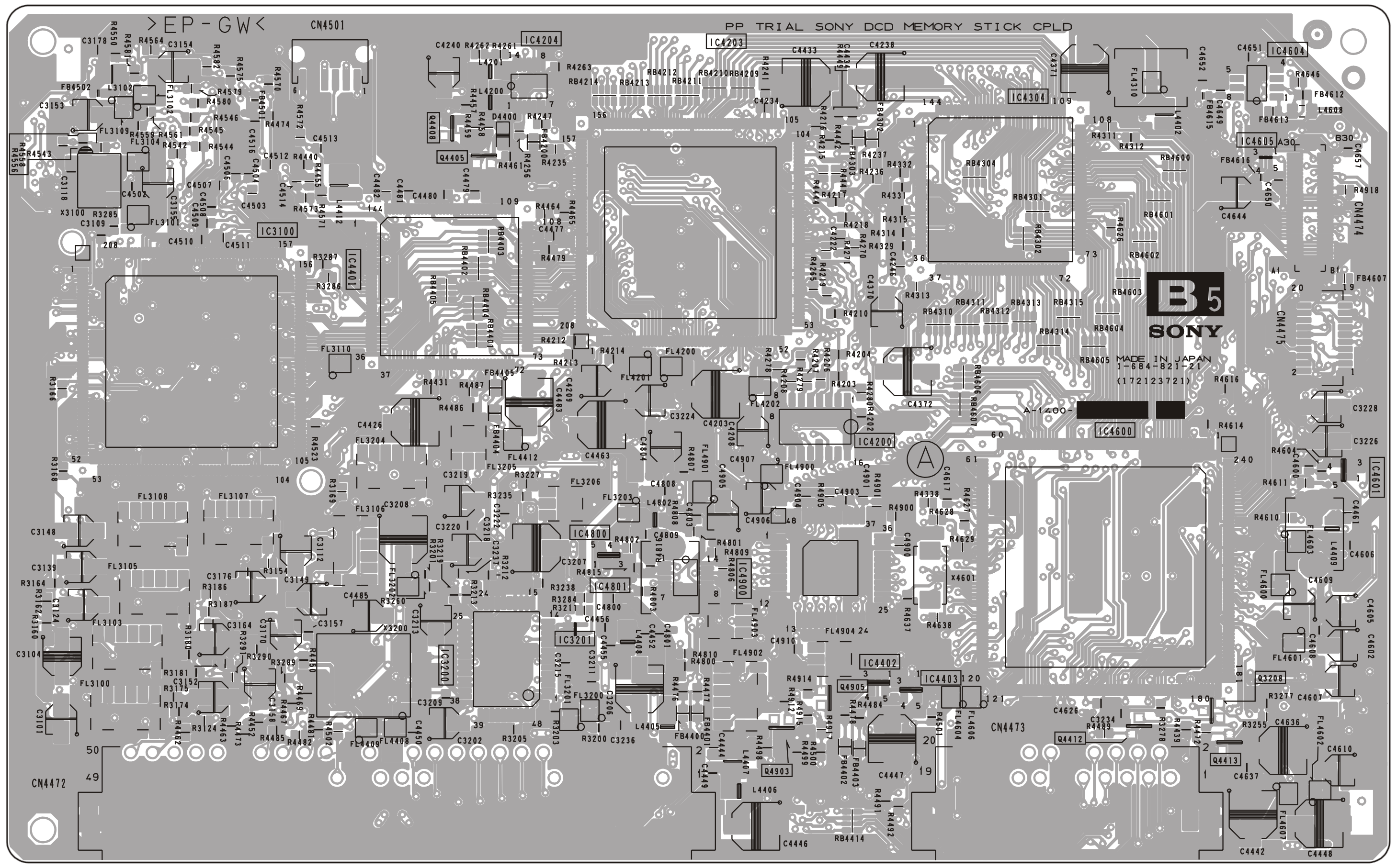
COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL

~ A Board Schematic Diagram [Digital Tuners] Page 9/9 ~

A B C D E F G H I J K L M N

1 2 3 4 5 6 7 8 9 10 11

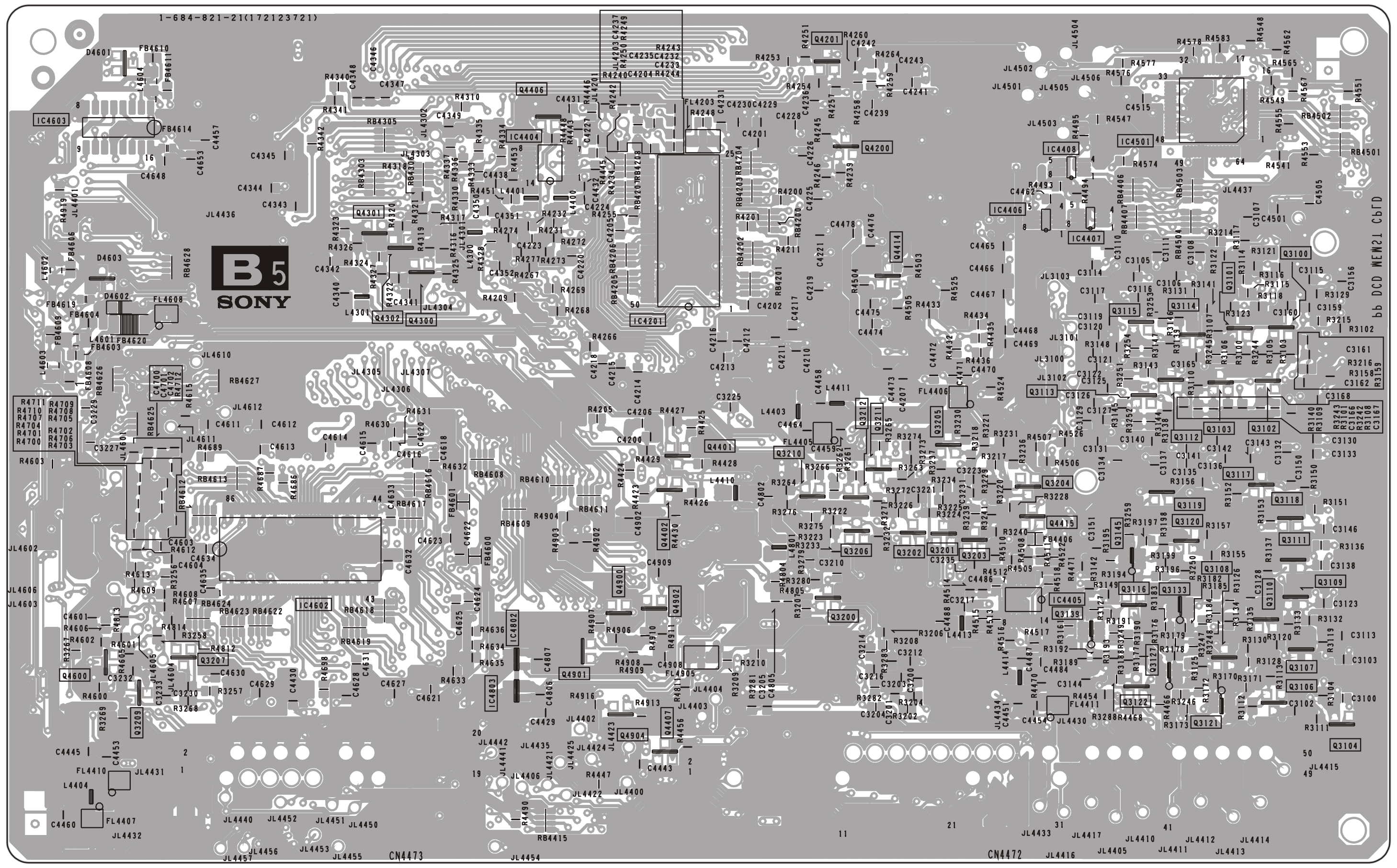
~ B5 Printed Wiring Board Conductor side A ~


>EP-GW<
PP TRIAL SONY DCD MEMORY STICK CPLD
B5
SONY
MADE IN JAPAN
1-684-821-21
(17212372l)
CN4501
CN4472
CN4473
IC3100
IC4200
IC4203
IC4204
IC4304
IC4600
IC4800
IC4801
IC3201
IC4402
IC4403

~ B5 Location Table A Side ~

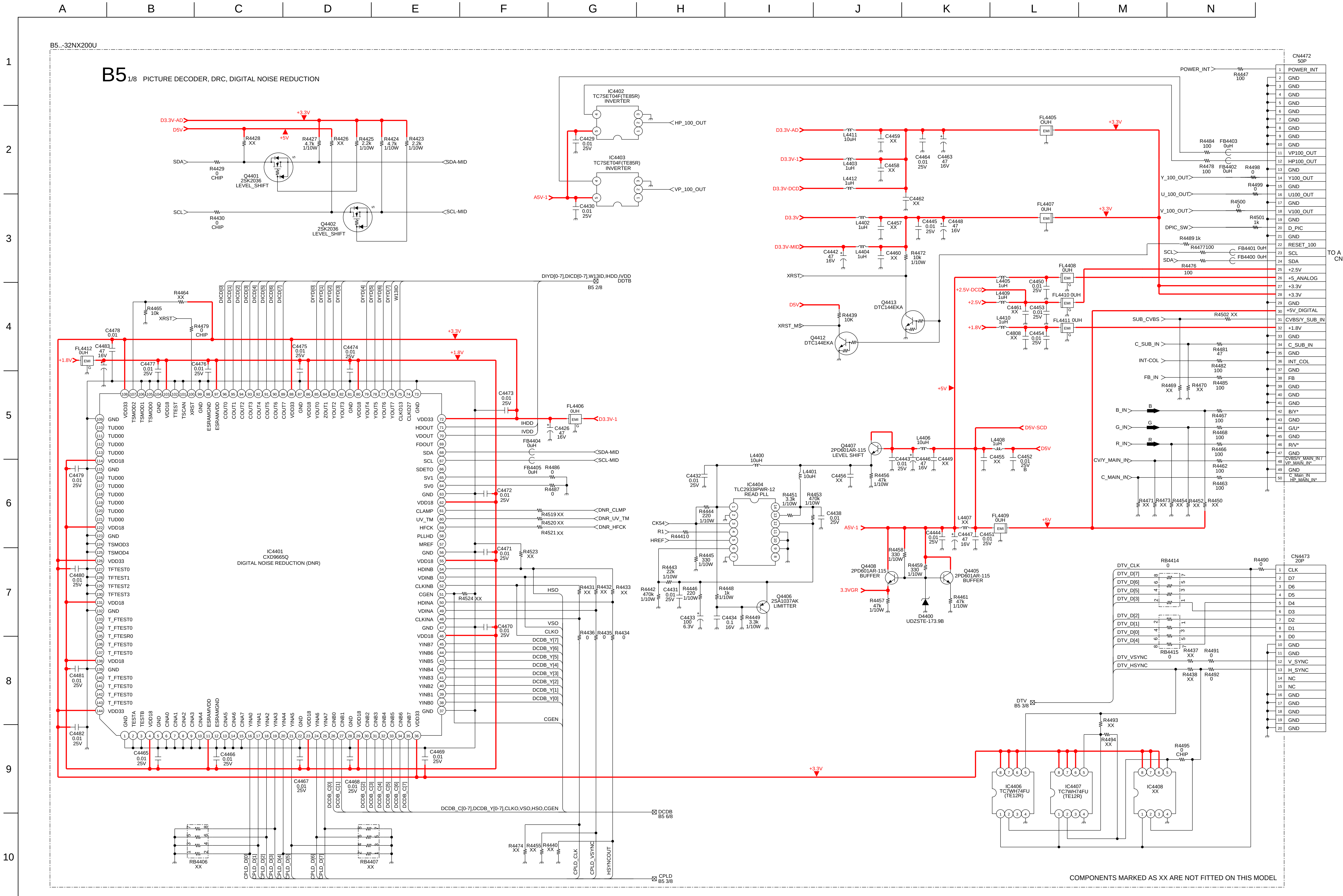
DIODE		IC3201	E - 5	IC4403	G - 5	**TRANSISTOR**		Q4903	F - 5
D4400	E - 2	IC4200	F - 3	IC4600	H - 4	Q3208	I - 5	Q4905	G - 5
IC		IC4203	F - 2	IC4800	E - 4	Q4405	E - 2		
IC3100	C - 3	IC4401	D - 3	IC4801	E - 4	Q4408	D - 2		
IC3200	D - 5	IC4402	G - 5	IC4900	F - 4	Q4413	I - 5		

~ B5 Printed Wiring Board Conductor side B ~

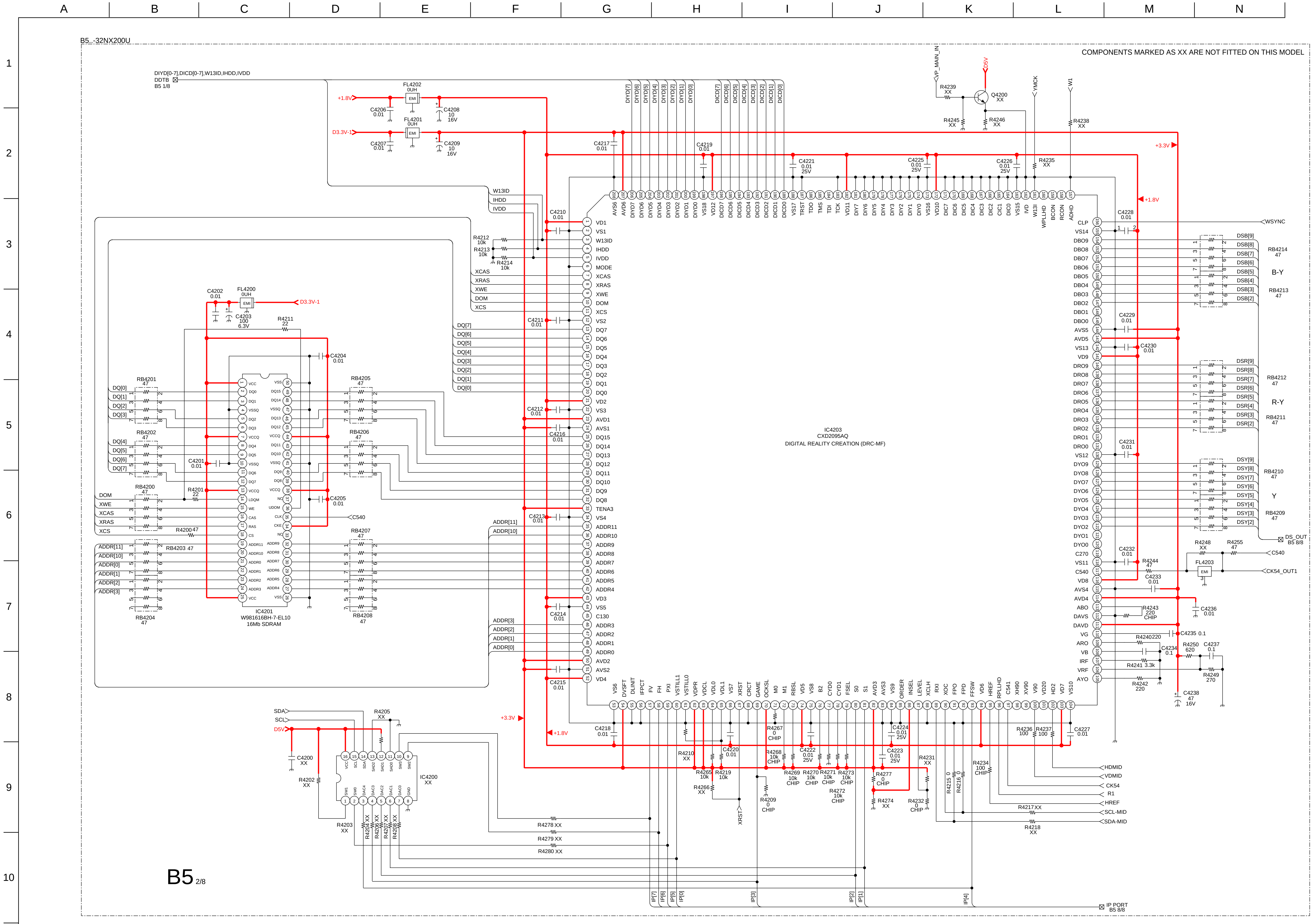

1-684-821-21(17212372l)
B5
SONY
CN4472
CN4473
IC4201
IC4404
IC4602
IC4802
IC4803

~ B5 Location Table B Side ~

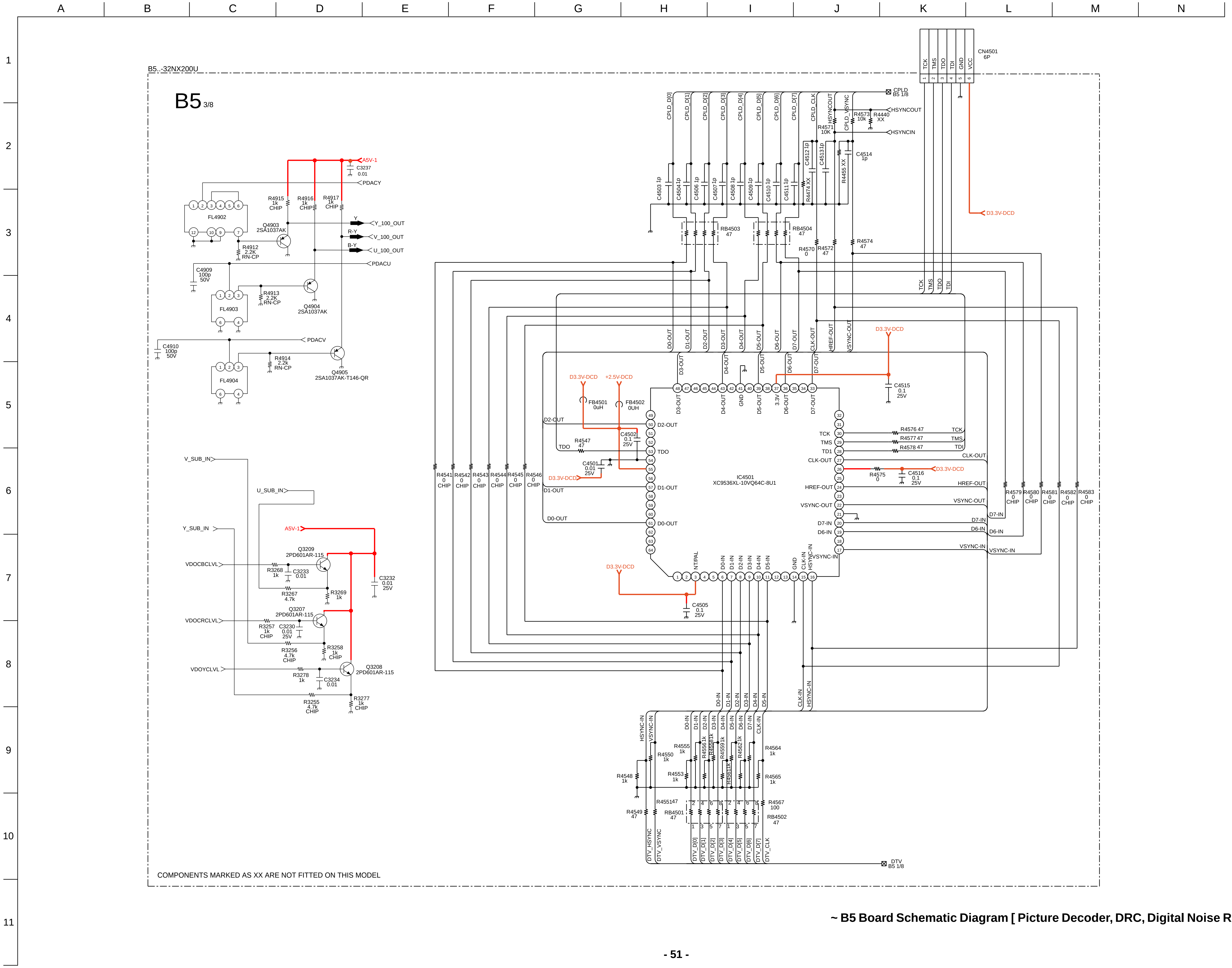
IC		Q3102	I - 8	Q3112	H - 8	Q3122	H - 10	Q3207	C - 10	Q4407	E - 10
IC4201	F - 8	Q3104	I - 10	Q3113	H - 8	Q3200	F - 10	Q3209	C - 10	Q4600	C - 10
IC4404	E - 7	Q3106	I - 10	Q3114	H - 8	Q3201	G - 9	Q3210	G - 9	Q4900	E - 10
IC4602	D - 9	Q3107	I - 10	Q3116	H - 10	Q3202	G - 9	Q3211	G - 9	Q4901	E - 10
IC4802	E - 10	Q3108	I - 10	Q3117	I - 9	Q3203	G - 9	Q3212	G - 9	Q4902	F- 10
IC4803	E - 10	Q3109	I - 10	Q3118	I - 9	Q3204	H - 9	Q4401	F - 9	Q4904	E - 10
TRANSISTOR		Q3110	I - 10	Q3119	H - 9	Q3205	G - 9	Q4402	F - 9		
Q3100	I - 8	Q3111	I - 10	Q3120	H - 9	Q3206	G - 9	Q4406	E - 7		


A B C D E F G H I J K L M N
1 2 3 4 5 6 7 8 9 10 11
B5..-32NX200U
B5 1/8 PICTURE DECODER, DRC, DIGITAL NOISE REDUCTION
IC4401
CXD9665Q
DIGITAL NOISE REDUCTION (DNR)
IC4402
TC7SET04F(TE85R)
INVERTER
IC4403
TC7SET04F(TE85R)
INVERTER
IC4404
TLC2933IPWR-12
READ PLL
Q4401
2SK2036
LEVEL_SHIFT
Q4402
2SK2036
LEVEL_SHIFT
Q4407
2PD601AR-115
LEVEL SHIFT
Q4408
2PD601AR-115
BUFFER
Q4405
2PD601AR-115
BUFFER
Q4406
2SA1037AK
LIMITTER
Q4412
DTC144EKA
Q4413
DTC144EKA
D4400
UDZSTE-173.9B
IC4406
TC7WH74FU
(TE12R)
IC4407
TC7WH74FU
(TE12R)
IC4408
XX
CN4472
50P
TO A BOARD
CN7109
CN4473
20P
D3.3V-AD
D5V
SDA
SCL
SDA-MID
SCL-MID
HP_100_OUT
VP_100_OUT
A5V-1
D3.3V-1
D3.3V-DCD
D3.3V
D3.3V-MID
XRST
XRST_MS
+2.5V-DCD
+2.5V
+1.8V
+3.3V
+5V
D5V-SCD
3.3VGR
POWER_INT
Y_100_OUT
U_100_OUT
V_100_OUT
DPIC_SW
SUB_CVBS
C_SUB_IN
INT-COL
FB_IN
B_IN
G_IN
R_IN
CV/Y_MAIN_IN
C_MAIN_IN
DIYD[0-7],DICD[0-7],W13ID,IHDD,IVDD
DDTB
B5 2/8
DCDB_C[0-7],DCDB_Y[0-7],CLKO,VSO,HSO,CGEN
DCDB
B5 6/8
CPLD
B5 3/8
DTV
B5 3/8
DNR_CLMP
DNR_UV_TM
DNR_HFCK
DTV_CLK
DTV_VSYNC
DTV_HSYNC
CPLD_CLK
CPLD_VSYNC
HSYNCOUT
RB4406
XX
RB4407
XX
RB4414
0
RB4415
0
COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL

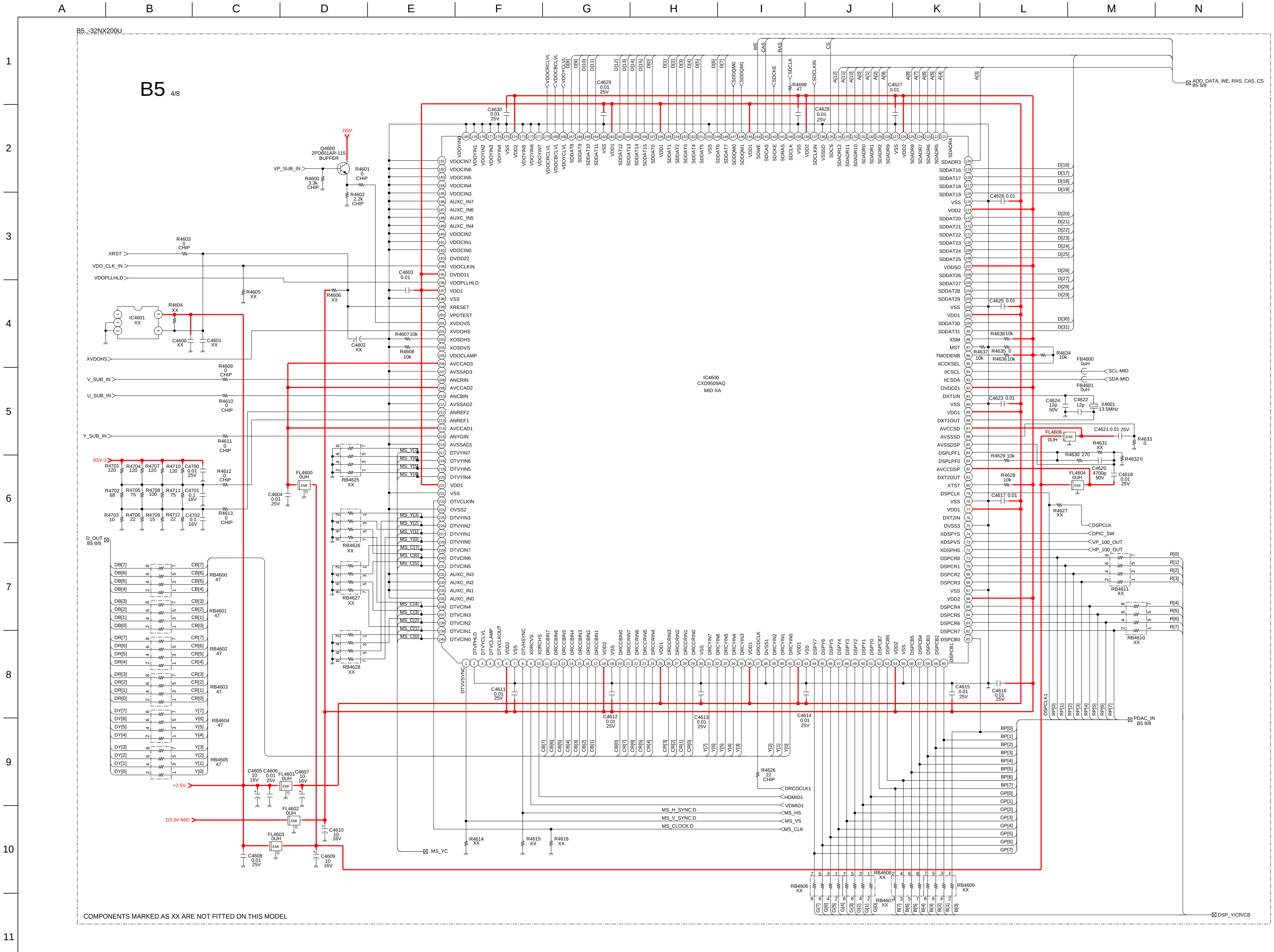
~ B5 Board Schematic Diagram [Picture Decoder, DRC, Digital Noise Reduction] Page 1/8 ~


B5..-32NX200U
COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL
DIYD[0-7],DICD[0-7],W13ID,IHDD,IVDD
DDTB
B5 1/8
+1.8V
D3.3V-1
+3.3V
D5V
FL4202 0UH
FL4201 0UH
FL4200 0UH
FL4203
IC4203
CXD2095AQ
DIGITAL REALITY CREATION (DRC-MF)
IC4201
W981616BH-7-EL10
16Mb SDRAM
IC4200
XX
Q4200
XX
VP_MAIN_IN
YMCK
W1
WSYNC
B-Y
R-Y
Y
DS_OUT
B5 8/8
C540
CK54_OUT1
HDMID
VDMID
CK54
R1
HREF
SCL-MID
SDA-MID
IP PORT
B5 8/8
SDA
SCL
XRST
B5 2/8

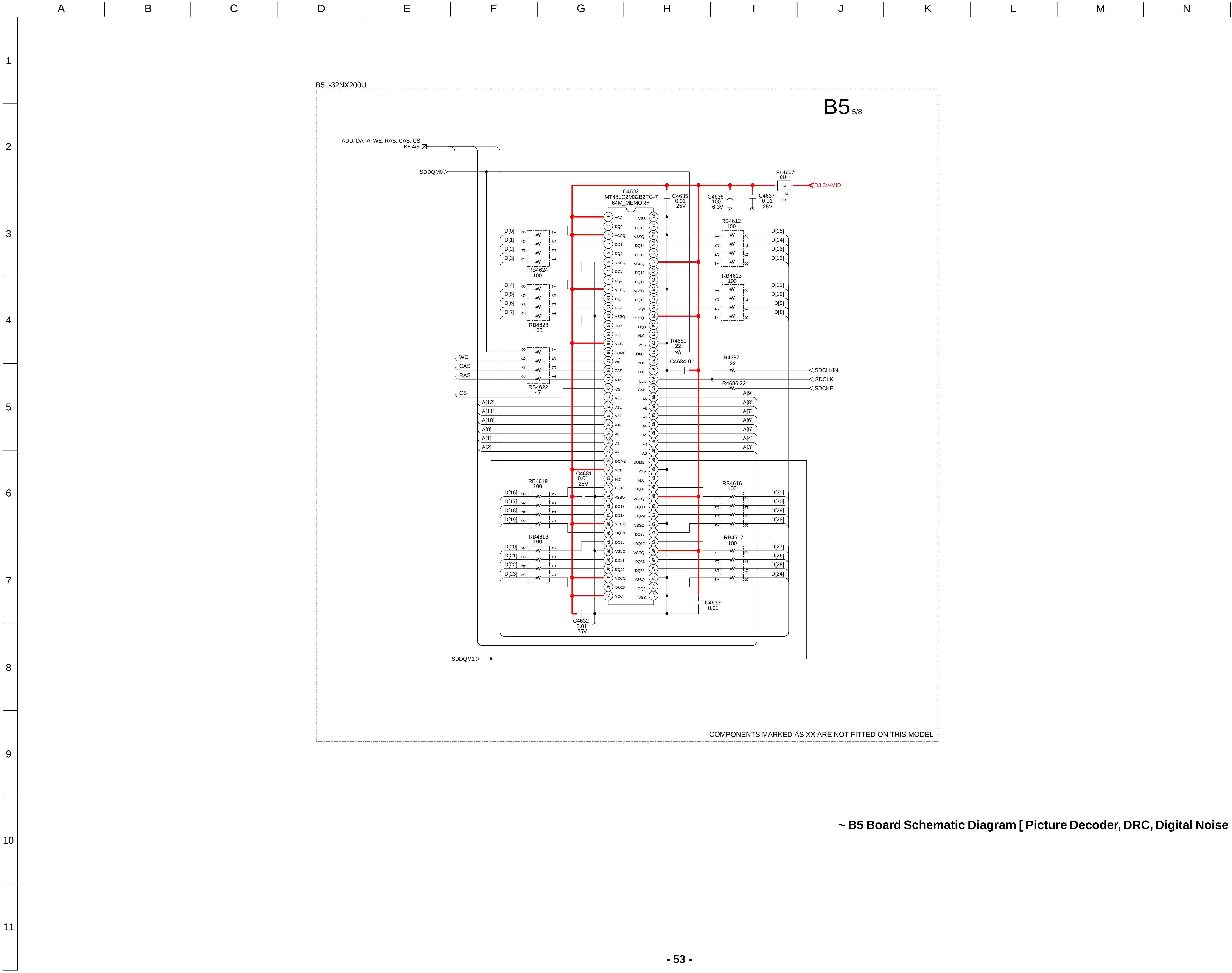
~ B5 Board Schematic Diagram [Picture Decoder, DRC, Digital Noise Reduction] Page2/8 ~


A
B
C
D
E
F
G
H
I
J
K
L
M
N
1
2
3
4
5
6
7
8
9
10
11
B5..-32NX200U
B5 3/8
CN4501
6P
TCK
TMS
TDO
TDI
GND
VCC
CPLD
B5 1/8
CPLD_D[0]
CPLD_D[1]
CPLD_D[2]
CPLD_D[3]
CPLD_D[4]
CPLD_D[5]
CPLD_D[6]
CPLD_D[7]
CPLD_CLK
HSYNCOUT
CPLD_VSYNC
HSYNCOUT
HSYNCIN
R4573 10k
R4440 XX
R4571 10K
C4512 1p
C4513 1p
C4514 1p
R4455 XX
R4474 XX
C4503 1p
C4504 1p
C4506 1p
C4507 1p
C4508 1p
C4509 1p
C4510 1p
C4511 1p
RB4503 47
RB4504 47
R4570 0
R4572 47
R4574 47
D3.3V-DCD
A5V-1
C3237 0.01
PDACY
R4915 1k CHIP
R4916 1k CHIP
R4917 1k CHIP
FL4902
Q4903 2SA1037AK
Y
Y_100_OUT
R-Y
V_100_OUT
B-Y
U_100_OUT
R4912 2.2K RN-CP
PDACU
C4909 100p 50V
R4913 2.2K RN-CP
Q4904 2SA1037AK
FL4903
PDACV
C4910 100p 50V
R4914 2.2K RN-CP
Q4905 2SA1037AK-T146-QR
FL4904
D0-OUT
D1-OUT
D2-OUT
D3-OUT
D4-OUT
D5-OUT
D6-OUT
D7-OUT
CLK-OUT
HREF-OUT
VSYNC-OUT
TCK
TMS
TDO
TDI
D3.3V-DCD
+2.5V-DCD
FB4501 0uH
FB4502 0UH
C4515 0.1 25V
GND
3.3V
R4547 47
C4502 0.1 25V
C4501 0.01 25V
TDO
IC4501
XC9536XL-10VQ64C-8U1
R4576 47
R4577 47
R4578 47
TCK
TMS
TD1
CLK-OUT
R4575 0
C4516 0.1 25V
HREF-OUT
VSYNC-OUT
D7-IN
D6-IN
VSYNC-IN
R4541 0 CHIP
R4542 0 CHIP
R4543 0 CHIP
R4544 0 CHIP
R4545 0 CHIP
R4546 0 CHIP
R4579 0 CHIP
R4580 0 CHIP
R4581 0 CHIP
R4582 0 CHIP
R4583 0 CHIP
NT/PAL
D0-IN
D1-IN
D2-IN
D3-IN
D4-IN
D5-IN
CLK-IN
HSYNC-IN
C4505 0.1 25V
V_SUB_IN
U_SUB_IN
Y_SUB_IN
VDOCBCLVL
VDOCRCLVL
VDOYCLVL
A5V-1
Q3209 2PD601AR-115
R3268 1k
C3233 0.01
C3232 0.01 25V
R3267 4.7k
R3269 1k
Q3207 2PD601AR-115
R3257 1k CHIP
C3230 0.01 25V
R3256 4.7k CHIP
R3258 1k CHIP
Q3208 2PD601AR-115
R3278 1k
C3234 0.01
R3255 4.7k CHIP
R3277 1k CHIP
HSYNC-IN
VSYNC-IN
D6-IN
D7-IN
R4548 1k
R4550 1k
R4555 1k
R4553 1k
R4556 1k
R4558 1k
R4559 1k
R4560 1k
R4562 1k
R4564 1k
R4565 1k
R4549 47
R4551 47
RB4501 47
R4567 100
RB4502 47
DTV_HSYNC
DTV_VSYNC
DTV_D[0]
DTV_D[1]
DTV_D[2]
DTV_D[3]
DTV_D[4]
DTV_D[5]
DTV_D[6]
DTV_D[7]
DTV_CLK
DTV
B5 1/8
COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL

~ B5 Board Schematic Diagram [Picture Decoder, DRC, Digital Noise Reduction] Page 3/8 ~

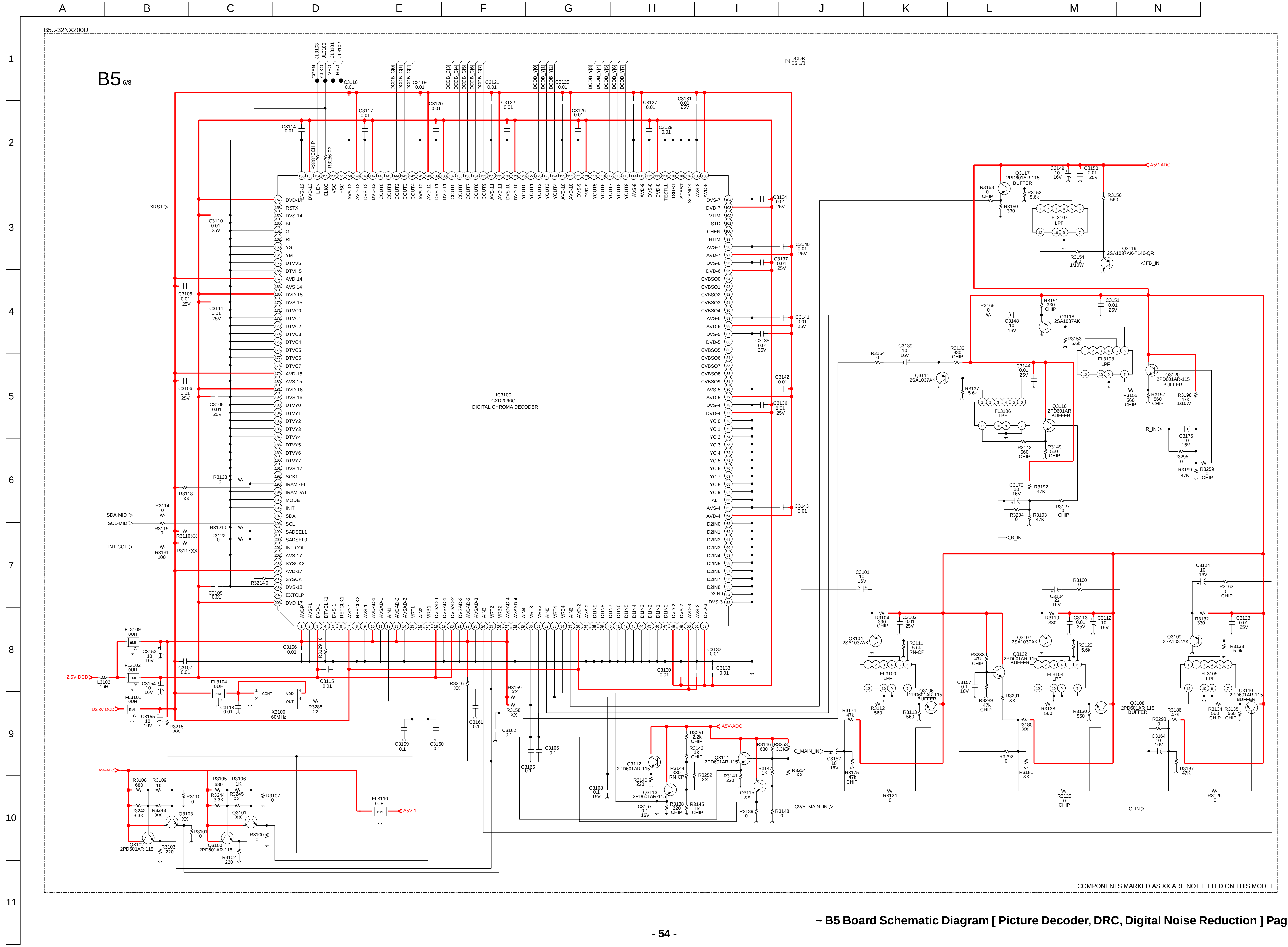

A
B
C
D
E
F
G
H
I
J
K
L
M
N
1
2
3
4
5
6
7
8
9
10
11
B5..-32NX200U
B5 4/8
IC4600
CXD9509AQ
MID-XA
Q4600
2PD601AR-115
BUFFER
VP_SUB_IN
D5V
XRST
VDO_CLK_IN
VDOPLLHLD
IC4601
XX
XVDOHS
V_SUB_IN
U_SUB_IN
Y_SUB_IN
A5V-1
D_OUT
B5 8/8
+2.5V
D3.3V-MID
MS_YC
ADD, DATA, WE, RAS, CAS, CS
B5 5/8
SCL-MID
SDA-MID
X4601
13.5MHz
DSPCLK
DPIC_SW
VP_100_OUT
HP_100_OUT
PDAC_IN
B5 8/8
DRCDCLK1
HDMID1
VDMID1
MS_HS
MS_VS
MS_CLK
MS_H_SYNC:D
MS_V_SYNC:D
MS_CLOCK:D
DSP_Y/CR/CB
COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL

~ B5 Board Schematic Diagram [Picture Decoder, DRC, Digital Noise Reduction] Page 4/8 ~


A
B
C
D
E
F
G
H
I
J
K
L
M
N
1
2
3
4
5
6
7
8
9
10
11
B5..-32NX200U
B5 5/8
ADD, DATA, WE, RAS, CAS, CS
B5 4/8
SDDQM0
SDDQM1
FL4607
0UH
EMI
D3.3V-MID
IC4602
MT48LC2M32B2TG-7
64M_MEMORY
C4635
0.01
25V
C4636
100
6.3V
C4637
0.01
25V
C4631
0.01
25V
C4632
0.01
25V
C4633
0.01
C4634 0.1
R4689
22
R4687
22
R4686 22
SDCLKIN
SDCLK
SDCKE
RB4624
100
RB4623
100
RB4622
47
RB4619
100
RB4618
100
RB4612
100
RB4613
100
RB4616
100
RB4617
100
WE
CAS
RAS
CS
D[0]
D[1]
D[2]
D[3]
D[4]
D[5]
D[6]
D[7]
D[8]
D[9]
D[10]
D[11]
D[12]
D[13]
D[14]
D[15]
D[16]
D[17]
D[18]
D[19]
D[20]
D[21]
D[22]
D[23]
D[24]
D[25]
D[26]
D[27]
D[28]
D[29]
D[30]
D[31]
A[12]
A[11]
A[10]
A[0]
A[1]
A[2]
A[9]
A[8]
A[7]
A[6]
A[5]
A[4]
A[3]
VCC
DQ0
VCCQ
DQ1
DQ2
VSSQ
DQ3
DQ4
VCCQ
DQ5
DQ6
VSSQ
DQ7
N.C.
VCC
DQM0
WE
CAS
RAS
CS
N.C.
A12
A11
A10
A0
A1
A2
DQM2
VCC
N.C.
DQ16
VSSQ
DQ17
DQ18
VCCQ
DQ19
DQ20
VSSQ
DQ21
DQ22
VCCQ
DQ23
VCC
VSS
DQ15
VSSQ
DQ14
DQ13
VCCQ
DQ12
DQ11
VSSQ
DQ10
DQ9
VCCQ
DQ8
N.C
VSS
DQM1
N.C.
N.C.
CLK
CKE
A9
A8
A7
A6
A5
A4
A3
DQM3
VSS
N.C.
DQ31
VCCQ
DQ30
DQ29
VSSQ
DQ28
DQ27
VCCQ
DQ26
DQ25
VSSQ
DQ24
VSS

COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL

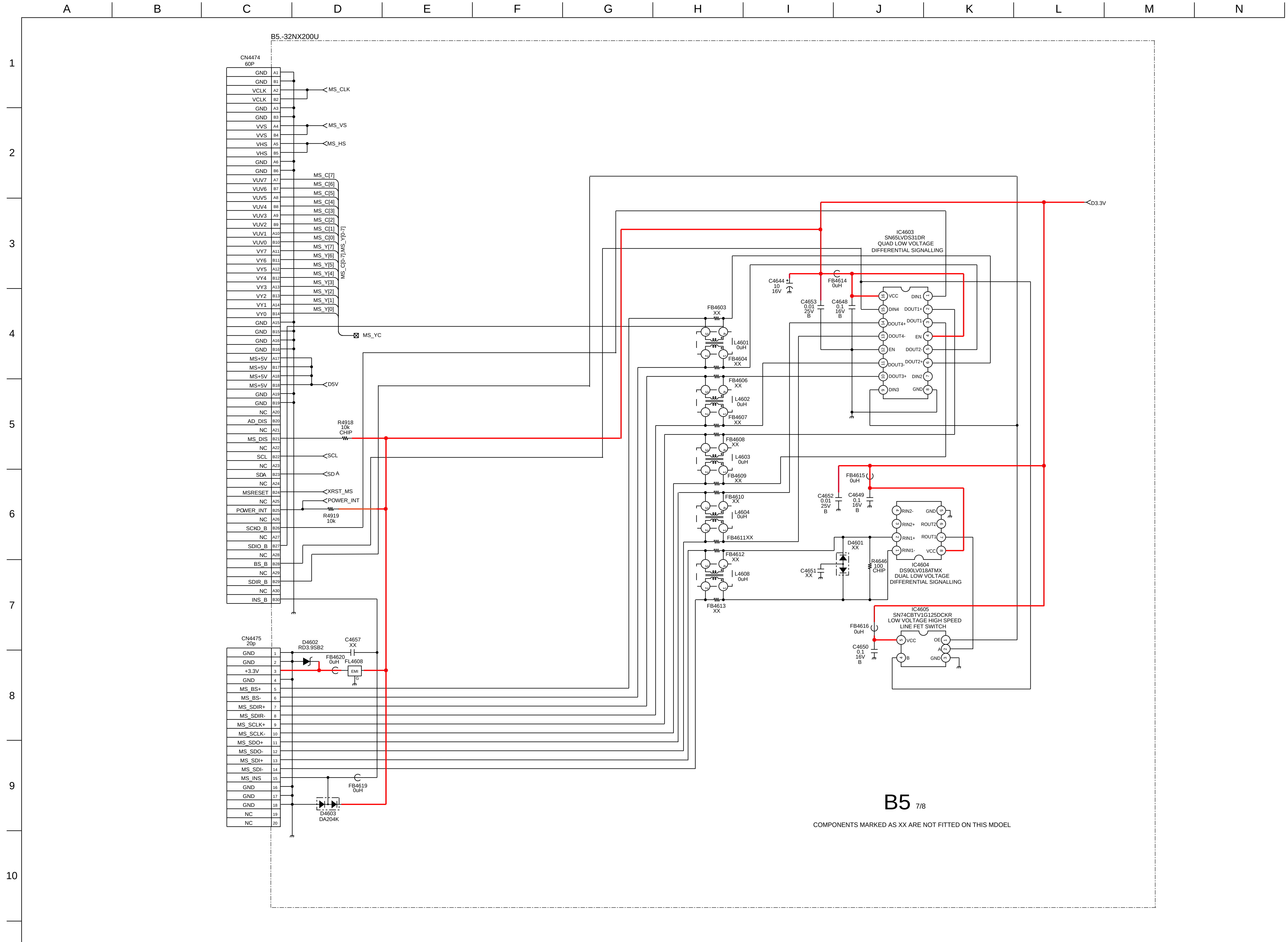
~ B5 Board Schematic Diagram [Picture Decoder, DRC, Digital Noise Reduction] Page 5/8~



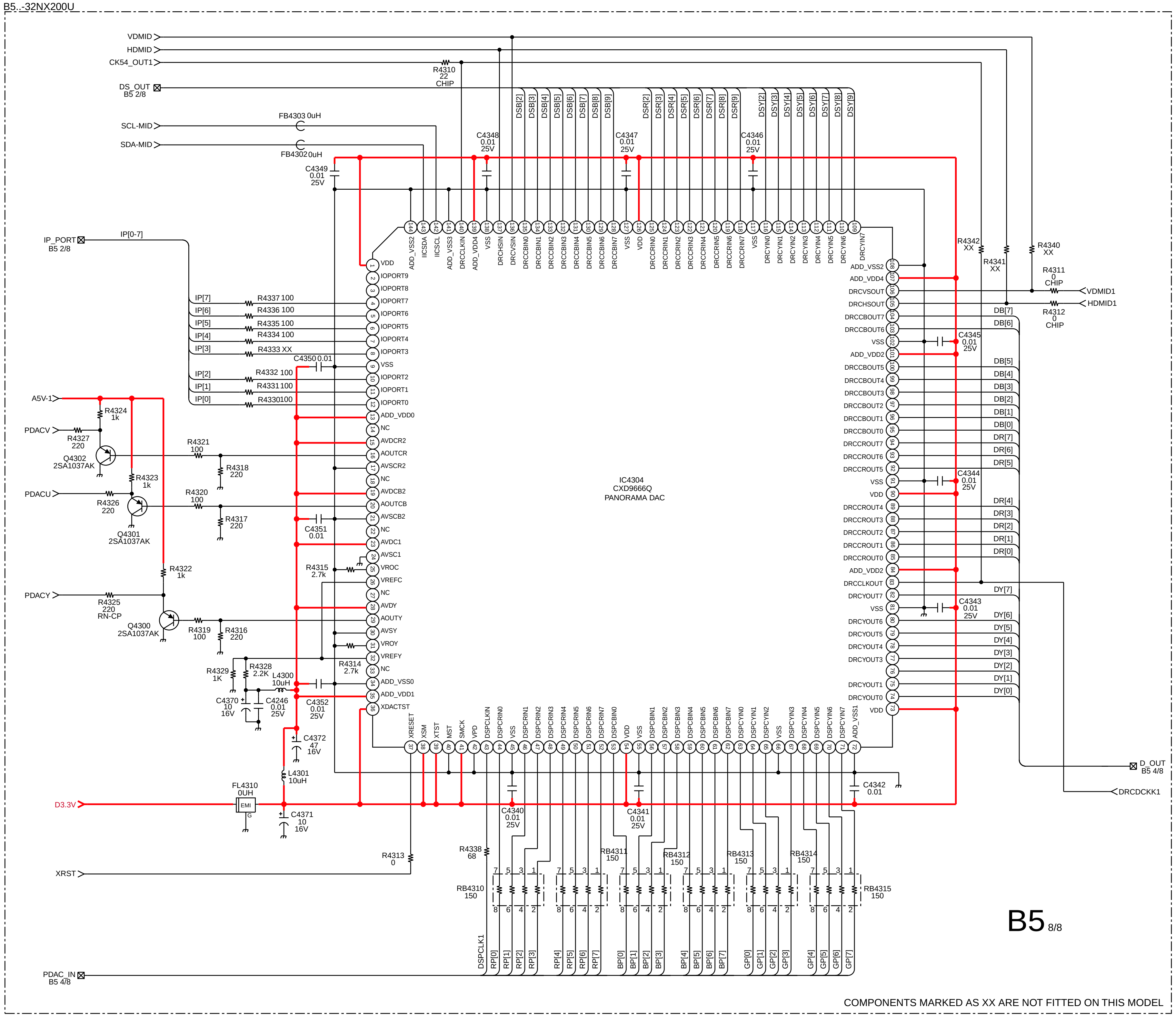
A B C D E F G H I J K L M N
1 2 3 4 5 6 7 8 9 10 11
B5..-32NX200U
B5 6/8
IC3100
CXD2096Q
DIGITAL CHROMA DECODER
JL3103 JL3100 JL3101 JL3102
CGEN CLKO VSO HSO
DCDB B5 1/8
XRST
SDA-MID
SCL-MID
INT-COL
+2.5V-DCD
D3.3V-DCD
A5V-ADC
A5V-1
FB_IN
R_IN
B_IN
C_MAIN_IN
CV/Y_MAIN_IN
G_IN
X3100 60MHz
CONT VDD OUT
FL3109 0UH
FL3102 0UH
FL3101 0UH
FL3104 0UH
FL3110 0UH
L3102 1uH
FL3100 LPF
FL3103 LPF
FL3105 LPF
FL3106 LPF
FL3107 LPF
FL3108 LPF
Q3117 2PD601AR-115 BUFFER
Q3118 2SA1037AK
Q3119 2SA1037AK-T146-QR
Q3120 2PD601AR-115 BUFFER
Q3111 2SA1037AK
Q3116 2PD601AR BUFFER
Q3104 2SA1037AK
Q3106 2PD601AR-115 BUFFER
Q3107 2SA1037AK
Q3122 2PD601AR-115 BUFFER
Q3108 2PD601AR-115 BUFFER
Q3109 2SA1037AK
Q3110 2PD601AR-115 BUFFER
Q3112 2PD601AR-115
Q3113 2PD601AR-115
Q3114 2PD601AR-115
Q3115 XX
Q3100 2PD601AR-115
Q3101 XX
Q3102 2PD601AR-115
Q3103 XX

COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL

~ B5 Board Schematic Diagram [Picture Decoder, DRC, Digital Noise Reduction] Page 6/8 ~


A
B
C
D
E
F
G
H
I
J
K
L
M
N
1
2
3
4
5
6
7
8
9
10
B5.-32NX200U
CN4474
60P
GND
VCLK
VVS
VHS
VUV7
VUV6
VUV5
VUV4
VUV3
VUV2
VUV1
VUV0
VY7
VY6
VY5
VY4
VY3
VY2
VY1
VY0
MS+5V
NC
AD_DIS
MS_DIS
SCL
SDA
MSRESET
POWER_INT
SCKO_B
SDIO_B
BS_B
SDIR_B
INS_B
MS_CLK
MS_VS
MS_HS
MS_C[7]
MS_C[6]
MS_C[5]
MS_C[4]
MS_C[3]
MS_C[2]
MS_C[1]
MS_C[0]
MS_Y[7]
MS_Y[6]
MS_Y[5]
MS_Y[4]
MS_Y[3]
MS_Y[2]
MS_Y[1]
MS_Y[0]
MS_C[0-7],MS_Y[0-7]
MS_YC
D5V
R4918
10k
CHIP
SCL
SDA
XRST_MS
POWER_INT
R4919
10k
D3.3V
IC4603
SN65LVDS31DR
QUAD LOW VOLTAGE
DIFFERENTIAL SIGNALLING
VCC
DIN4
DOUT4+
DOUT4-
EN
DOUT3-
DOUT3+
DIN3
DIN1
DOUT1+
DOUT1-
DOUT2-
DOUT2+
DIN2
GND
C4644
10
16V
FB4614
0uH
C4653
0.01
25V
B
C4648
0.1
16V
B
FB4603
XX
L4601
0uH
FB4604
XX
FB4606
XX
L4602
0uH
FB4607
XX
FB4608
XX
L4603
0uH
FB4609
XX
FB4610
XX
L4604
0uH
FB4611XX
FB4612
XX
L4608
0uH
FB4613
XX
FB4615
0uH
C4652
0.01
25V
B
C4649
0.1
16V
B
RIN2-
RIN2+
RIN1+
RIN1-
ROUT2
ROUT1
VCC
IC4604
DS90LV018ATMX
DUAL LOW VOLTAGE
DIFFERENTIAL SIGNALLING
D4601
XX
C4651
XX
R4646
100
CHIP
IC4605
SN74CBTV1G125DCKR
LOW VOLTAGE HIGH SPEED
LINE FET SWITCH
FB4616
0uH
C4650
0.1
16V
B
OE
A
B
CN4475
20p
GND
+3.3V
MS_BS+
MS_BS-
MS_SDIR+
MS_SDIR-
MS_SCLK+
MS_SCLK-
MS_SDO+
MS_SDO-
MS_SDI+
MS_SDI-
MS_INS
NC
D4602
RD3.9SB2
C4657
XX
FB4620
0uH
FL4608
EMI
FB4619
0uH
D4603
DA204K
B5 7/8
COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MDOEL

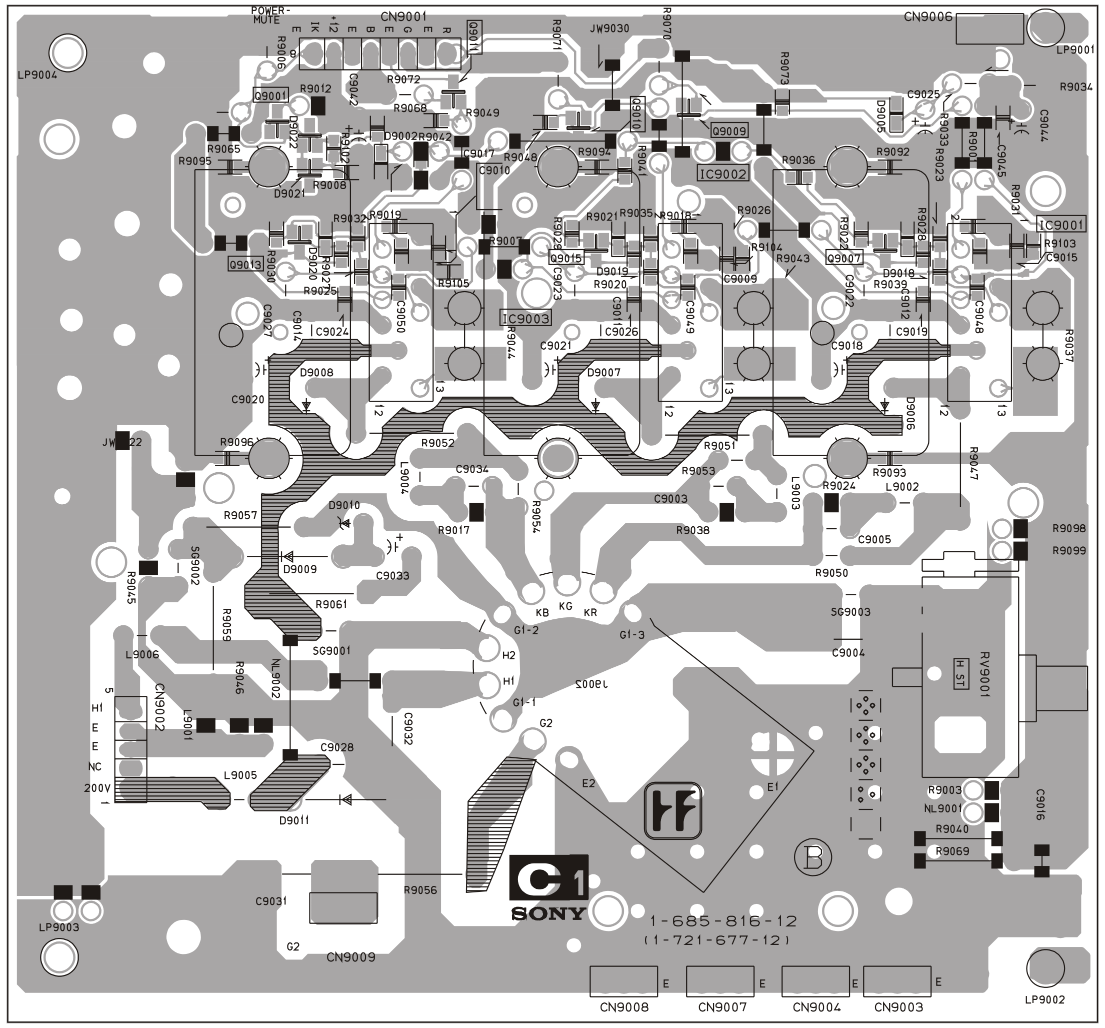
~ B5 Board Schematic Diagram [Picture Decoder, DRC, Digital Noise Reduction] Page 7/8 ~


B5.-32NX200U
VDMID
HDMID
CK54_OUT1
DS_OUT
B5 2/8
SCL-MID
SDA-MID
FB4303 0uH
FB4302 0uH
R4310
22
CHIP
C4348
0.01
25V
C4347
0.01
25V
C4346
0.01
25V
C4349
0.01
25V
IP_PORT
B5 2/8
IP[0-7]
A5V-1
PDACV
PDACU
PDACY
R4324
1k
R4327
220
Q4302
2SA1037AK
R4323
1k
R4326
220
Q4301
2SA1037AK
R4322
1k
R4325
220
RN-CP
Q4300
2SA1037AK
R4321
100
R4318
220
R4320
100
R4317
220
R4319
100
R4316
220
R4337 100
R4336 100
R4335 100
R4334 100
R4333 XX
R4332 100
R4331 100
R4330 100
C4350 0.01
C4351
0.01
R4315
2.7k
R4314
2.7k
R4329
1k
R4328
2.2K
L4300
10uH
C4370
10
16V
C4246
0.01
25V
C4352
0.01
25V
C4372
47
16V
L4301
10uH
FL4310
0UH
EMI
D3.3V
C4371
10
16V
R4313
0
XRST
PDAC_IN
B5 4/8
IC4304
CXD9666Q
PANORAMA DAC
R4342
XX
R4341
XX
R4340
XX
R4311
0
CHIP
R4312
0
CHIP
VDMID1
HDMID1
C4345
0.01
25V
C4344
0.01
25V
C4343
0.01
25V
C4342
0.01
C4340
0.01
25V
C4341
0.01
25V
R4338
68
RB4310
150
RB4311
150
RB4312
150
RB4313
150
RB4314
150
RB4315
150
D_OUT
B5 4/8
DRCDCKK1
DB[7]
DB[6]
DB[5]
DB[4]
DB[3]
DB[2]
DB[1]
DB[0]
DR[7]
DR[6]
DR[5]
DR[4]
DR[3]
DR[2]
DR[1]
DR[0]
DY[7]
DY[6]
DY[5]
DY[4]
DY[3]
DY[2]
DY[1]
DY[0]
DSPCLK1
RP[0]
RP[1]
RP[2]
RP[3]
RP[4]
RP[5]
RP[6]
RP[7]
BP[0]
BP[1]
BP[2]
BP[3]
BP[4]
BP[5]
BP[6]
BP[7]
GP[0]
GP[1]
GP[2]
GP[3]
GP[4]
GP[5]
GP[6]
GP[7]
B5 8/8

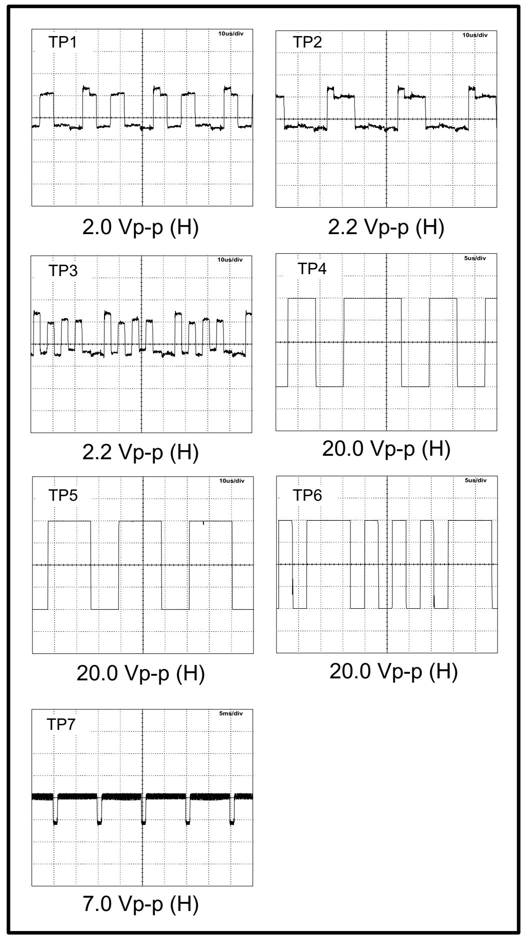
COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL

~ B5 Board Schematic Diagram [Picture Decoder, DRC, Digital Noise Reduction] Page 8/8 ~

~ C1 Printed Wiring Board Conductor side ~


POWER-MUTE
CN9001
CN9006
JW9030
LP9004
LP9001
LP9003
LP9002
IC9001
IC9002
IC9003
RV9001
CN9002
CN9009
CN9008
CN9007
CN9004
CN9003
C1
SONY
1-685-816-12
(1-721-677-12)

~ C1 Board Waveforms ~



TP1: 2.0 Vp-p (H)

TP2: 2.2 Vp-p (H)

TP3: 2.2 Vp-p (H)

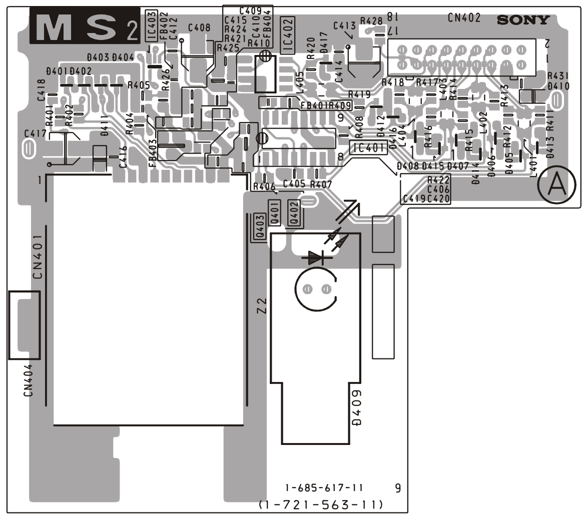
TP4: 20.0 Vp-p (H)

TP5: 20.0 Vp-p (H)

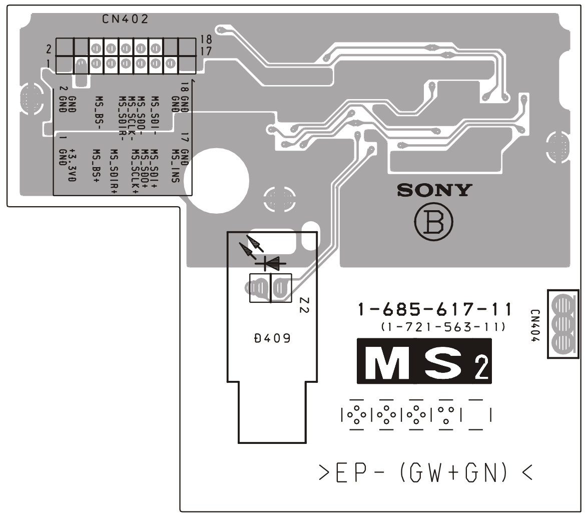
TP6: 20.0 Vp-p (H)

TP7: 7.0 Vp-p (H)

~ MS2 Printed Wiring Board Conductor side A ~


MS2
SONY
CN402
CN401
CN404
D409
Z2
A
1-685-617-11
(1-721-563-11)

~ MS2 Printed Wiring Board Conductor side B ~


CN402
SONY
B
D409
Z2
1-685-617-11
(1-721-563-11)
CN404
MS2
>EP-(GW+GN)<

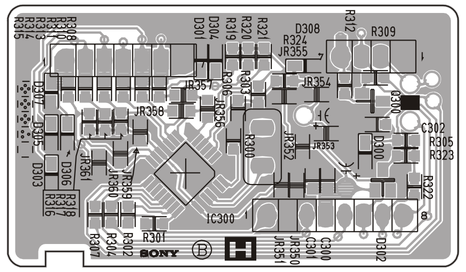
~ C1 Board Semiconductor Voltage Table ~

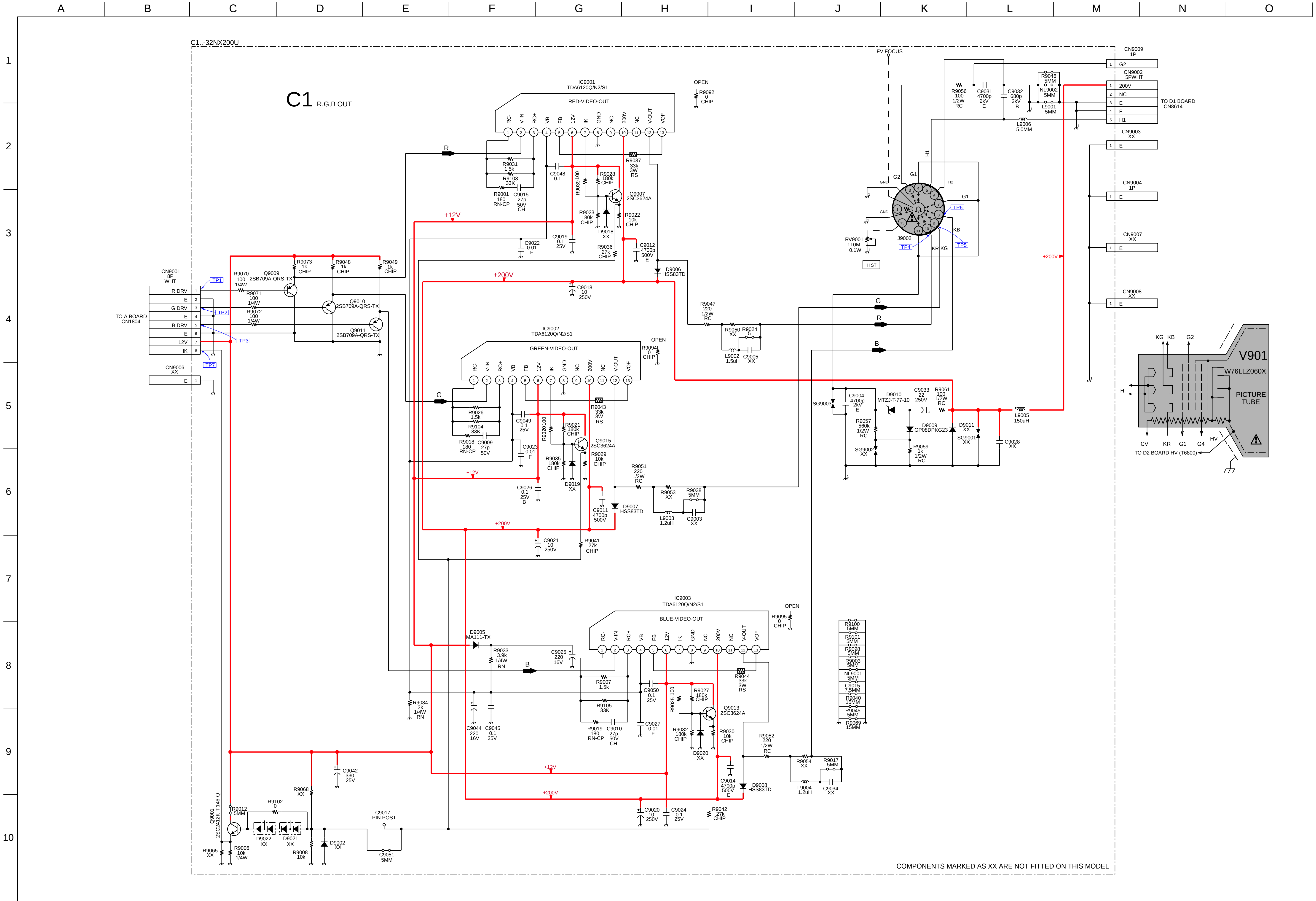
Ref	(e)	(b)	(c)
Q9001	5.5	7.1	12.0
Q9007	10.3	11.3	12.0
Q9009	3.6	2.8	0
Q9010	3.6	2.9	0
Q9011	3.7	2.9	0
Q9013	10.4	11.4	12.0
Q9015	9.4	10.5	12.0

~ C1 Board IC Voltage Table ~

Ref No	Pin No	Volts (V)	Ref No	Pin No	Volts (V)	Ref No	Pin No	Volts (V)
IC9001	1	2.7	IC9002	1	2.7	IC9003	1	2.7
	2	3.6		2	3.6		2	3.8
	3	2.9		3	3.0		3	2.9
	4	3.7		4	3.7		4	3.7
	5	2.0		5	2.1		5	2.0
	6	12.0		6	11.9		6	12.0
	7	11.4		7	10.7		7	11.5
	8	0		8	0		8	0
	10	211.6		10	211.5		10	211.6
	12	153.1		12	151.0		12	143.0
	13	145.0		13	142.6		13	136.4

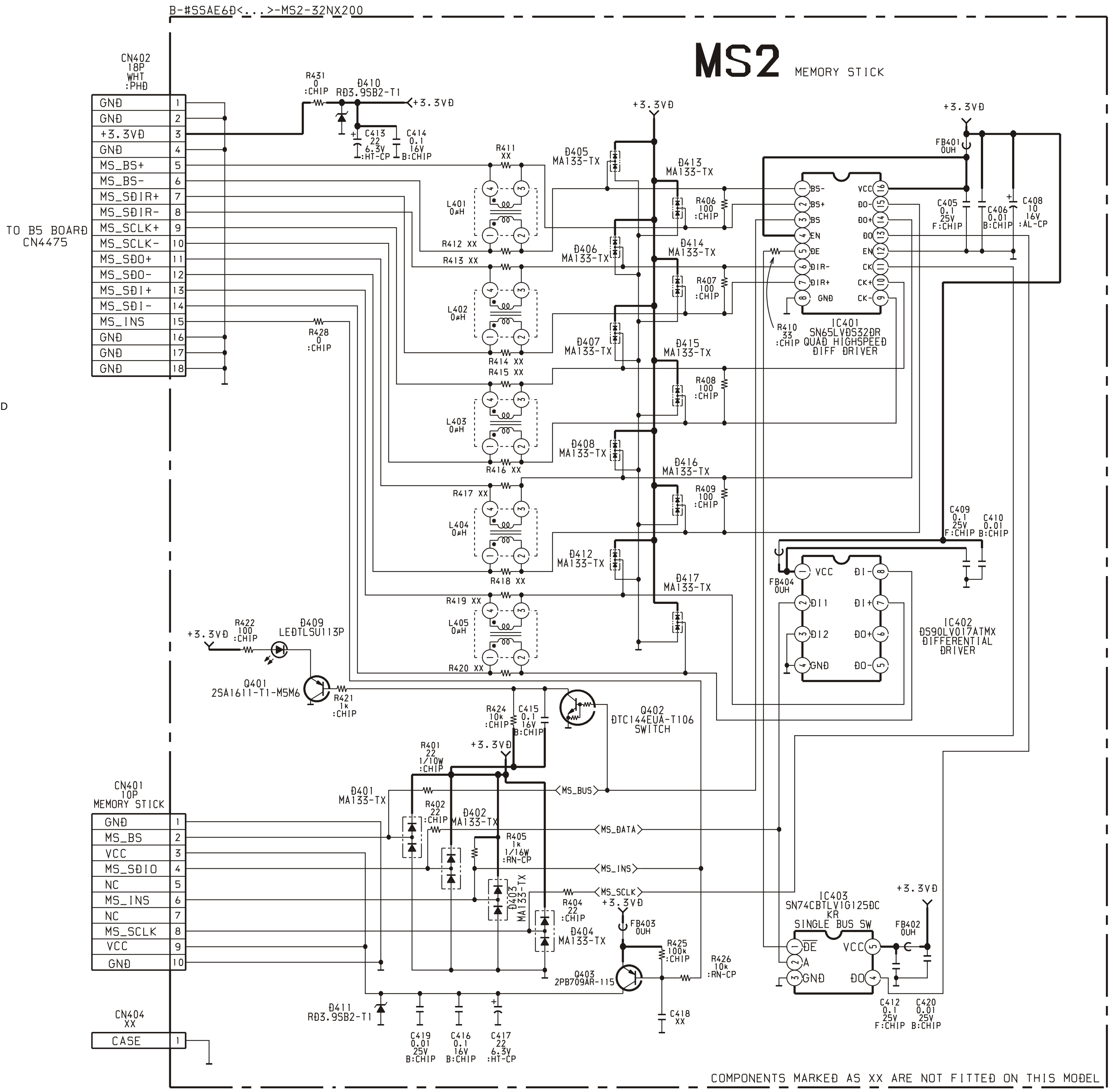
~ H Printed Wiring Board Conductor side ~


IC300
SONY
H

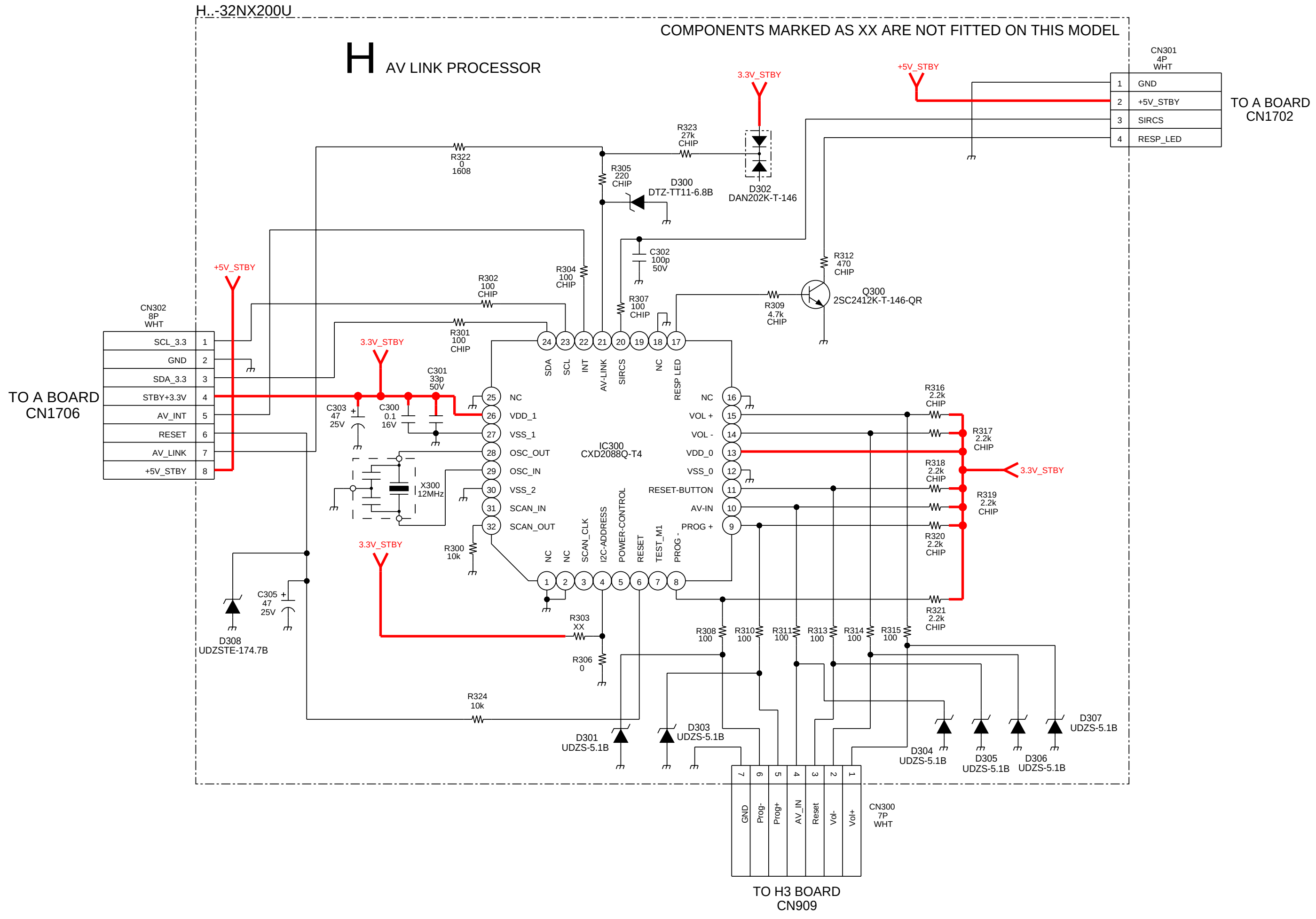

A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
1
2
3
4
5
6
7
8
9
10
11
C1..-32NX200U
C1 R,G,B OUT
IC9001
TDA6120Q/N2/S1
RED-VIDEO-OUT
RC-
V-IN
RC+
VB
FB
12V
IK
GND
NC
200V
NC
V-OUT
VOF
OPEN
R9092
0
CHIP
R
R9031
1.5k
R9103
33K
R9001
180
RN-CP
C9015
27p
50V
CH
C9048
0.1
R9039 100
R9028
180k
CHIP
Q9007
2SC3624A
R9037
33k
3W
RS
R9023
180k
CHIP
D9018
XX
R9022
10k
CHIP
+12V
C9022
0.01
F
C9019
0.1
25V
R9036
27k
CHIP
C9012
4700p
500V
E
D9006
HSS83TD
+200V
C9018
10
250V
CN9001
8P
WHT
R DRV
E
G DRV
E
B DRV
E
12V
IK
TO A BOARD
CN1804
TP1
TP2
TP3
TP7
R9070
100
1/4W
Q9009
2SB709A-QRS-TX
R9071
100
1/4W
R9072
100
1/4W
R9073
1k
CHIP
R9048
1k
CHIP
R9049
1k
CHIP
Q9010
2SB709A-QRS-TX
Q9011
2SB709A-QRS-TX
CN9006
XX
E
IC9002
TDA6120Q/N2/S1
GREEN-VIDEO-OUT
OPEN
R9094
0
CHIP
G
R9026
1.5k
R9104
33K
R9018
180
RN-CP
C9009
27p
50V
C9049
0.1
25V
C9023
0.01
F
R9020 100
R9021
180k
CHIP
Q9015
2SC3624A
R9043
33k
3W
RS
R9035
180k
CHIP
D9019
XX
R9029
10k
CHIP
C9026
0.1
25V
B
C9011
4700p
500V
D9007
HSS83TD
R9051
220
1/2W
RC
R9053
XX
R9038
5MM
L9003
1.2uH
C9003
XX
C9021
10
250V
R9041
27k
CHIP
R9047
220
1/2W
RC
R9050
XX
R9024
5
L9002
1.5uH
C9005
XX
IC9003
TDA6120Q/N2/S1
BLUE-VIDEO-OUT
OPEN
R9095
0
CHIP
D9005
MA111-TX
R9033
3.9k
1/4W
RN
C9025
220
16V
R9034
2k
1/4W
RN
C9044
220
16V
C9045
0.1
25V
R9007
1.5k
R9105
33K
R9019
180
RN-CP
C9010
27p
50V
CH
C9050
0.1
25V
R9025 100
R9027
180k
CHIP
Q9013
2SC3624A
R9044
33k
3W
RS
C9027
0.01
F
R9032
180k
CHIP
D9020
XX
R9030
10k
CHIP
R9052
220
1/2W
RC
R9054
XX
R9017
5MM
L9004
1.2uH
C9034
XX
C9014
4700p
500V
E
D9008
HSS83TD
C9020
10
250V
C9024
0.1
25V
R9042
27k
CHIP
C9042
330
25V
R9068
XX
R9102
0
Q9001
2SC2412K-T-146-Q
R9012
5MM
D9022
XX
D9021
XX
D9002
XX
R9065
XX
R9006
10k
1/4W
R9008
10k
C9017
PIN POST
C9051
5MM
FV FOCUS
R9056
100
1/2W
RC
C9031
4700p
2kV
E
C9032
680p
2kV
B
R9046
5MM
NL9002
5MM
L9001
5MM
L9006
5.0MM
CN9009
1P
G2
CN9002
5PWHT
200V
NC
E
E
H1
TO D1 BOARD
CN8614
CN9003
XX
E
CN9004
1P
E
CN9007
XX
E
CN9008
XX
E
H1
G2
G1
H2
GND
GND
G1
TP6
KB
TP5
KR
KG
J9002
TP4
RV9001
110M
0.1W
H ST
+200V
G
R
B
C9004
4700p
2kV
E
D9010
MTZJ-T-77-10
C9033
22
250V
R9061
100
1/2W
RC
SG9003
R9057
560k
1/2W
RC
D9009
GP08DPKG23
D9011
XX
SG9001
XX
L9005
150uH
C9028
XX
SG9002
XX
R9059
1k
1/2W
RC
KG
KB
G2
V901
W76LLZ060X
H
PICTURE
TUBE
CV
KR
G1
G4
HV
TO D2 BOARD HV (T6800)
R9100
5MM
R9101
5MM
R9098
5MM
R9003
5MM
NL9001
5MM
C9015
7.5MM
R9040
15MM
R9045
5MM
R9069
15MM
COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL

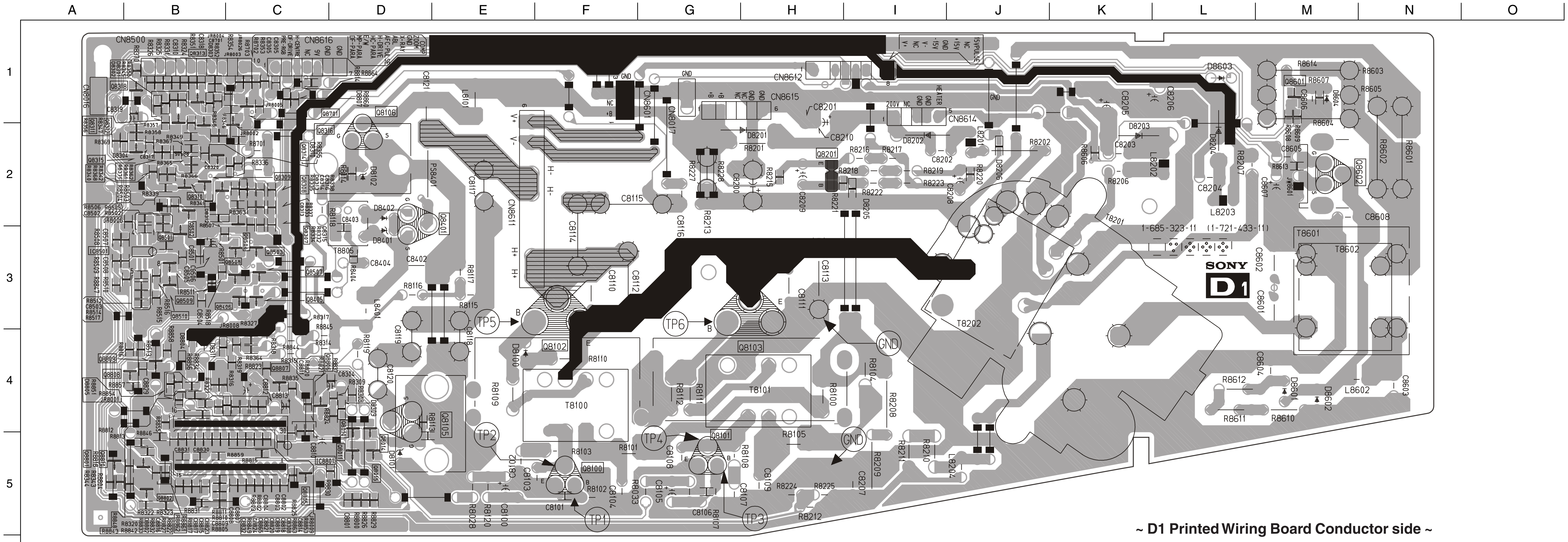
~ C1 Board Schematic Diagram [R-G-B Out] ~

~ MS2 Board Schematic Diagram [Memory Stick] ~


B-#SSAE6D<. . .>-MS2-32NX200
MS2 MEMORY STICK
CN402 18P WHT :PHD
GND
GND
+3.3VD
GND
MS_BS+
MS_BS-
MS_SDIR+
MS_SDIR-
MS_SCLK+
MS_SCLK-
MS_SDO+
MS_SDO-
MS_SDI+
MS_SDI-
MS_INS
GND
GND
GND
TO B5 BOARD CN4475
R431 0 :CHIP
D410 RD3.9SB2-T1
+3.3VD
C413 22 6.3V :HT-CP
C414 0.1 16V B:CHIP
L401 0uH
L402 0uH
L403 0uH
L404 0uH
L405 0uH
D405 MA133-TX
D406 MA133-TX
D407 MA133-TX
D408 MA133-TX
D412 MA133-TX
D413 MA133-TX
D414 MA133-TX
D415 MA133-TX
D416 MA133-TX
D417 MA133-TX
R406 100 :CHIP
R407 100 :CHIP
R408 100 :CHIP
R409 100 :CHIP
R428 0 :CHIP
IC401 SN65LVDS32DR :CHIP QUAD HIGHSPEED DIFF DRIVER
R410 33 :CHIP
FB401 0UH
C405 0.1 25V F:CHIP
C406 0.01 16V B:CHIP
C408 10 16V :AL-CP
C409 0.1 25V F:CHIP
C410 0.01 B:CHIP
FB404 0UH
IC402 DS90LV017ATMX DIFFERENTIAL DRIVER
R422 100 :CHIP
D409 LEDTLSU113P
Q401 2SA1611-T1-M5M6
R421 1k :CHIP
R424 10k :CHIP
C415 0.1 16V B:CHIP
Q402 DTC144EUA-T106 SWITCH
CN401 10P MEMORY STICK
GND
MS_BS
VCC
MS_SDIO
NC
MS_INS
NC
MS_SCLK
VCC
GND
R401 22 1/10W :CHIP
D401 MA133-TX
R402 22 :CHIP
D402 MA133-TX
R405 1k 1/16W :RN-CP
D403 MA133-TX
R404 22 :CHIP
D404 MA133-TX
MS_BUS
MS_DATA
MS_INS
MS_SCLK
FB403 0UH
R425 100k :CHIP
Q403 2PB709AR-115
R426 10k :RN-CP
C418 XX
IC403 SN74CBTLV1G125DC KR SINGLE BUS SW
FB402 0UH
C412 0.1 25V F:CHIP
C420 0.01 25V B:CHIP
CN404 XX CASE
D411 RD3.9SB2-T1
C419 0.01 25V B:CHIP
C416 0.1 16V B:CHIP
C417 22 6.3V :HT-CP
COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL

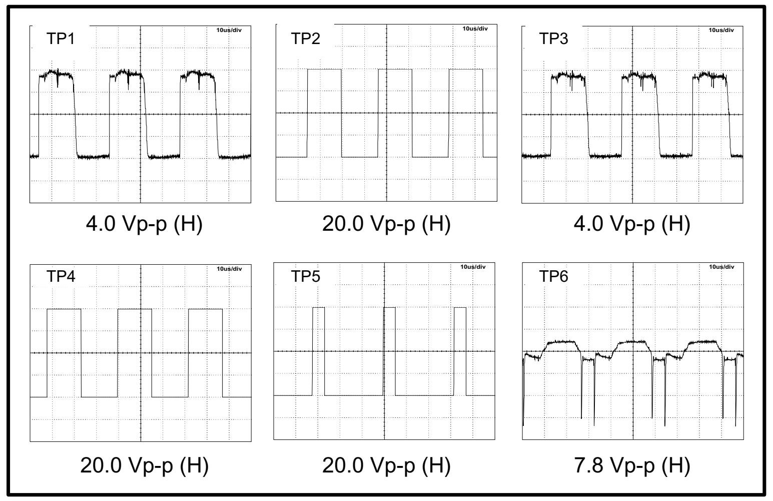
~ H Board Schematic Diagram [AV Link Processor] ~


H..-32NX200U
H AV LINK PROCESSOR
COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL
CN301 4P WHT
GND
+5V_STBY
SIRCS
RESP_LED
TO A BOARD CN1702
3.3V_STBY
+5V_STBY
R323 27k CHIP
R322 0 1608
R305 220 CHIP
D300 DTZ-TT11-6.8B
D302 DAN202K-T-146
C302 100p 50V
R312 470 CHIP
Q300 2SC2412K-T-146-QR
R309 4.7k CHIP
R304 100 CHIP
R307 100 CHIP
R302 100 CHIP
R301 100 CHIP
CN302 8P WHT
SCL_3.3
GND
SDA_3.3
STBY+3.3V
AV_INT
RESET
AV_LINK
+5V_STBY
TO A BOARD CN1706
C301 33p 50V
C303 47 25V
C300 0.1 16V
IC300 CXD2088Q-T4
X300 12MHz
NC
VDD_1
VSS_1
OSC_OUT
OSC_IN
VSS_2
SCAN_IN
SCAN_OUT
SDA
SCL
INT
AV-LINK
SIRCS
NC
RESP_LED
VOL +
VOL -
VDD_0
VSS_0
RESET-BUTTON
AV-IN
PROG +
SCAN_CLK
I2C-ADDRESS
POWER-CONTROL
RESET
TEST_M1
PROG -
R316 2.2k CHIP
R317 2.2k CHIP
R318 2.2k CHIP
R319 2.2k CHIP
R320 2.2k CHIP
R321 2.2k CHIP
R300 10k
C305 47 25V
D308 UDZSTE-174.7B
R303 XX
R306 0
R324 10k
R308 100
R310 100
R311 100
R313 100
R314 100
R315 100
D301 UDZS-5.1B
D303 UDZS-5.1B
D304 UDZS-5.1B
D305 UDZS-5.1B
D306 UDZS-5.1B
D307 UDZS-5.1B
CN300 7P WHT
GND
Prog-
Prog+
AV_IN
Reset
Vol-
Vol+
TO H3 BOARD CN909


A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
1
2
3
4
5
CN8500
CN8616
CN8612
CN8615
CN8614
CN8611
CN8601
CN8017
CN8016
T8100
T8101
T8201
T8202
T8601
T8602
T8805
Q8100
Q8101
Q8102
Q8103
Q8105
Q8106
Q8201
Q8401
Q8602
TP1
TP2
TP3
TP4
TP5
TP6
GND
B
E
1-685-323-11 (1-721-433-11)
SONY
D1

~ D1 Printed Wiring Board Conductor side ~

~ D1 Board Waveforms ~



~ D1 Board Location Table ~

DIODE	
D8100	E - 4
D8101	D - 5
D8102	D - 2
D8201	H - 2
D8202	I - 2
D8203	K - 2
D8204	L - 2
D8309	D - 5
D8311	B - 4
D8312	B - 3
D8313	C - 3
D8802	B - 5
D8804	B - 4
D8805	B - 4

IC	
IC8501	A - 3
IC8801	C - 5

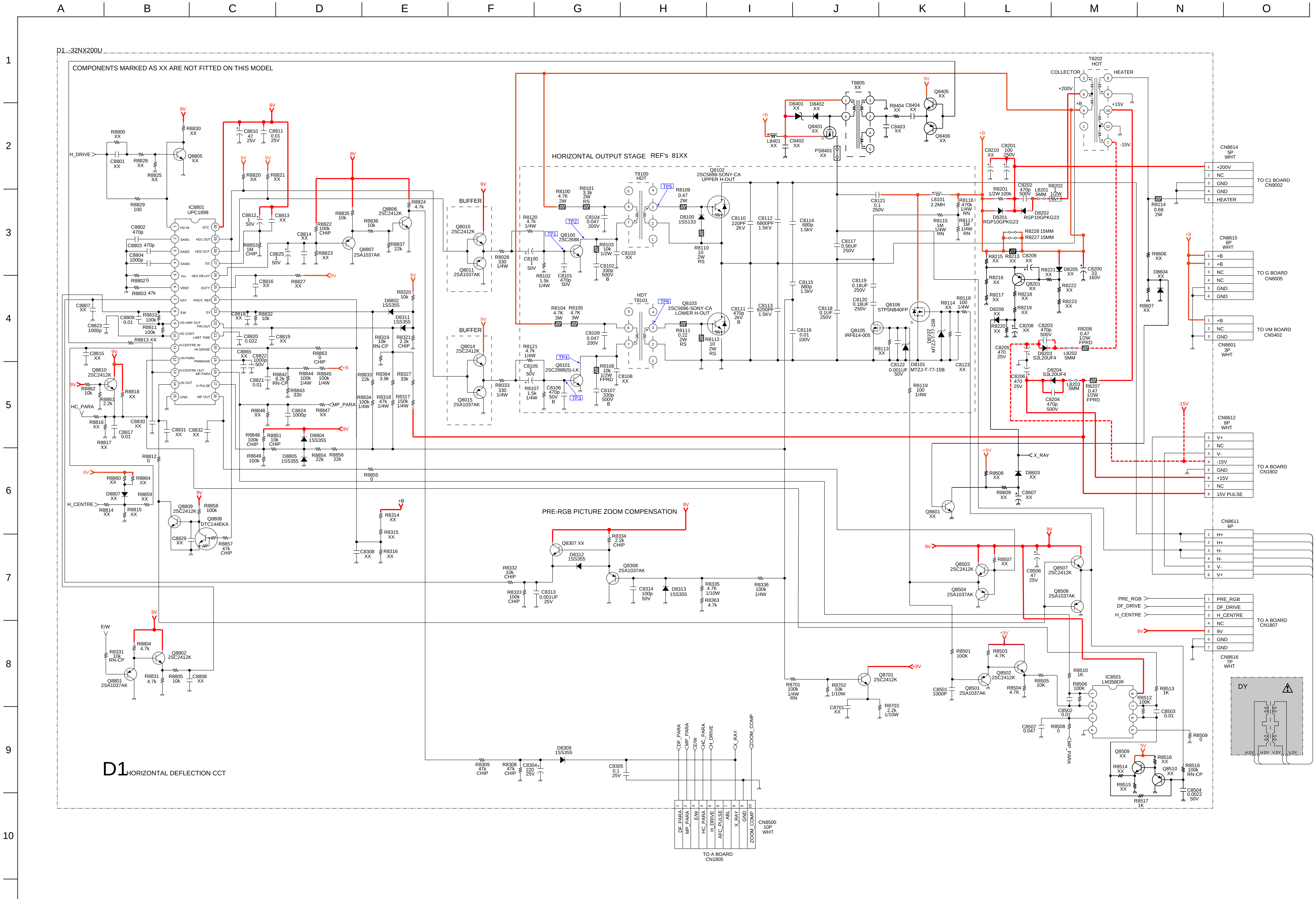
TRANSISTOR	
Q8010	D - 5
Q8011	D - 5
Q8014	D - 5
Q8015	D - 5
Q8100	F - 5
Q8101	G - 5
Q8102	F - 4
Q8103	H - 4
Q8105	D - 5
Q8106	D - 2
Q8501	B - 3
Q8502	B - 3
Q8503	C - 3
Q8504	C - 3
Q8507	C - 3
Q8508	C - 3
Q8701	C - 2
Q8801	A - 5
Q8802	B - 6
Q8806	C - 5
Q8807	C - 4
Q8808	B - 4
Q8809	B - 4
Q8810	A - 5

~ D1 Board Semiconductor Voltages ~

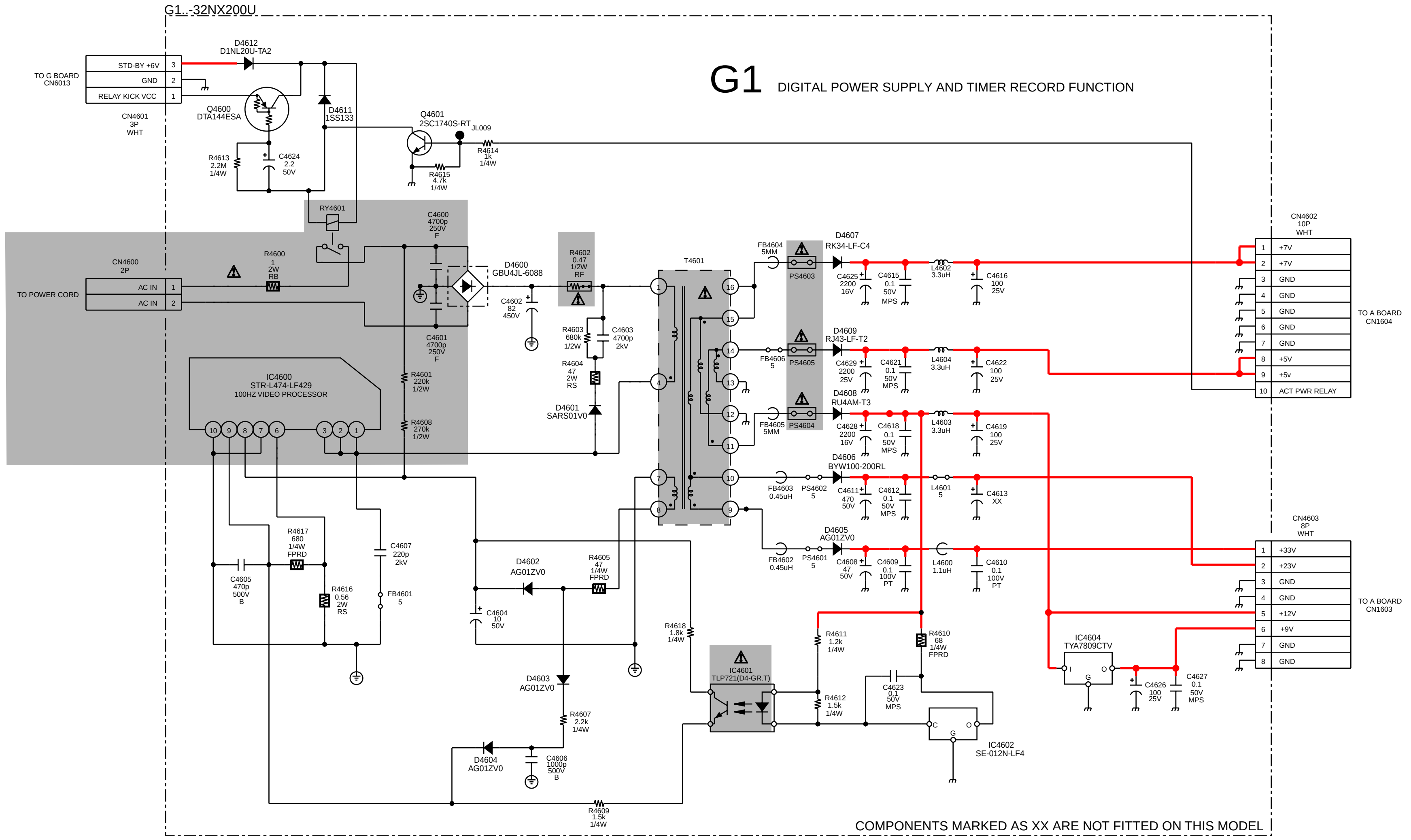
Ref	(s)	(g)	(d)
Q8105	0	3.2	21.1
Q8106	0	1.1	135.2
Ref	**(e)**	**(b)**	**(c)**
Q8010	4.0	3.9	8.9
Q8011	4.0	3.9	0
Q8014	3.9	3.8	8.9
Q8015	3.9	3.8	0
Q8308	0.9	0.2	0
Q8503	3.2	3.2	8.9
Q8504	3.2	3.2	0
Q8507	1.1	1.0	8.9
Q8508	1.1	1.0	0
Q8701	0.5	0	8.9
Q8806	0	0.7	0
Q8807	4.4	3.8	0
Q8808	0	2.1	0
Q8809	0	0	1.0

~ D1 Board IC Voltages ~

Ref No	Pin No	Voltage (V)
IC8801	1	4.4
	2	2.7
	3	3.4
	4	1.4
	5	0
	6	3.0
IC8801	7	3.7
	8	3.7
	9	3.2
	10	3.2
	11	1.3
	12	2.1
IC8801	13	3.0
	14	1.0
	15	0
	16	3.2
	17	1.7
	18	3.2
IC8801	19	2.6
	20	5.5
	21	2.6
	22	1.0
	23	1.0
	24	5.5
IC8801	25	4.2
	26	3.8
	27	2.7
	28	3.9
	29	3.8
	30	8.8

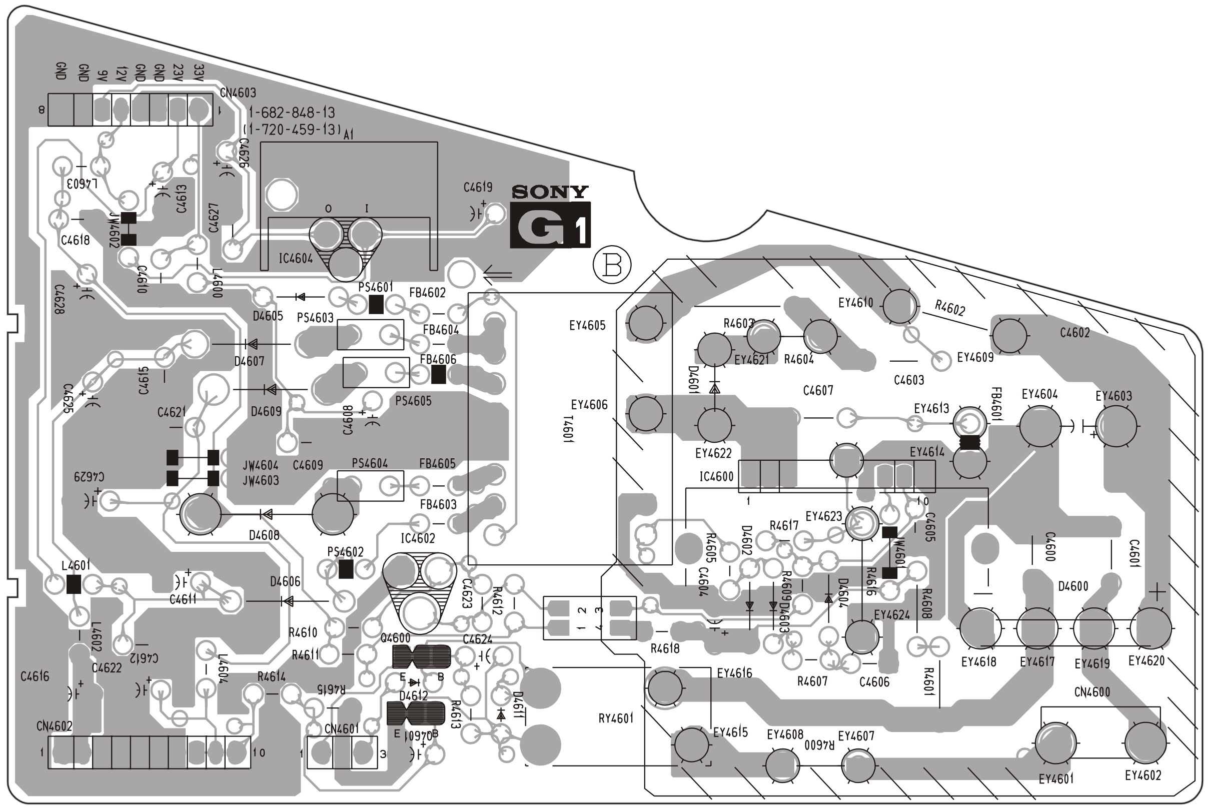

D1..-32NX200U
COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL
HORIZONTAL OUTPUT STAGE REF's 81XX
PRE-RGB PICTURE ZOOM COMPENSATION
BUFFER
BUFFER
D1 HORIZONTAL DEFLECTION CCT
IC8801 UPC1898
IC8501 LM358DR
T8202 HOT
T8100 HDT
T8101 HDT
T8805 XX
Q8102 2SC5698-SONY-CA UPPER H-OUT
Q8103 2SC5696-SONY-CA LOWER H-OUT
Q8106 STP5NB40FP
Q8105 IRF614-005
Q8100 2SC2688
Q8101 2SC2688(5)-LK
Q8010 2SC2412K
Q8011 2SC1037AK
Q8014 2SC2412K
Q8015 2SA1037AK
Q8806 2SC2412K
Q8807 2SA1037AK
Q8809 2SC2412K
Q8808 DTC144EKA
Q8801 2SA1037AK
Q8802 2SC2412K
Q8307 XX
Q8308 2SA1037AK
Q8503 2SC2412K
Q8504 2SA1037AK
Q8507 2SC2412K
Q8508 2SA1037AK
Q8502 2SC2412K
Q8501 2SA1037AK
Q8701 2SC2412K
Q8810 2SC2412K
H_DRIVE
HC_PARA
H_CENTRE
E/W
X_RAY
COLLECTOR
HEATER
+200V
+15V
-15V
+B
9V
+9V
CN8614 5P WHT
1 +200V
2 NC
3 GND
4 GND
5 HEATER
TO C1 BOARD CN9002
CN8615 6P WHT
1 +B
2 +B
3 NC
4 NC
5 GND
6 GND
TO G BOARD CN6005
CN8601 3P WHT
1 +B
2 NC
3 GND
TO VM BOARD CN5402
CN8612 8P WHT
1 V+
2 NC
3 V-
4 -15V
5 GND
6 +15V
7 NC
8 15V PULSE
TO A BOARD CN1802
CN8611 6P
1 H+
2 H+
3 H-
4 H-
5 V-
6 V+
CN8616 7P WHT
1 PRE_RGB
2 DF_DRIVE
3 H_CENTRE
4 NC
5 9V
6 GND
7 GND
TO A BOARD CN1807
PRE_RGB
DF_DRIVE
DY
H.DY
V.DY
CN8500 10P WHT
1 DF_PARA
2 MP_PARA
3 E/W
4 HC_PARA
5 H_DRIVE
6 AFC_PULSE
7 ABL
8 X_RAY
9 GND
10 ZOOM_COMP
TO A BOARD CN1805
A B C D E F G H I J K L M N O
1 2 3 4 5 6 7 8 9 10 11

~ D1 Board Schematic Diagram [Horizontal Deflection] ~

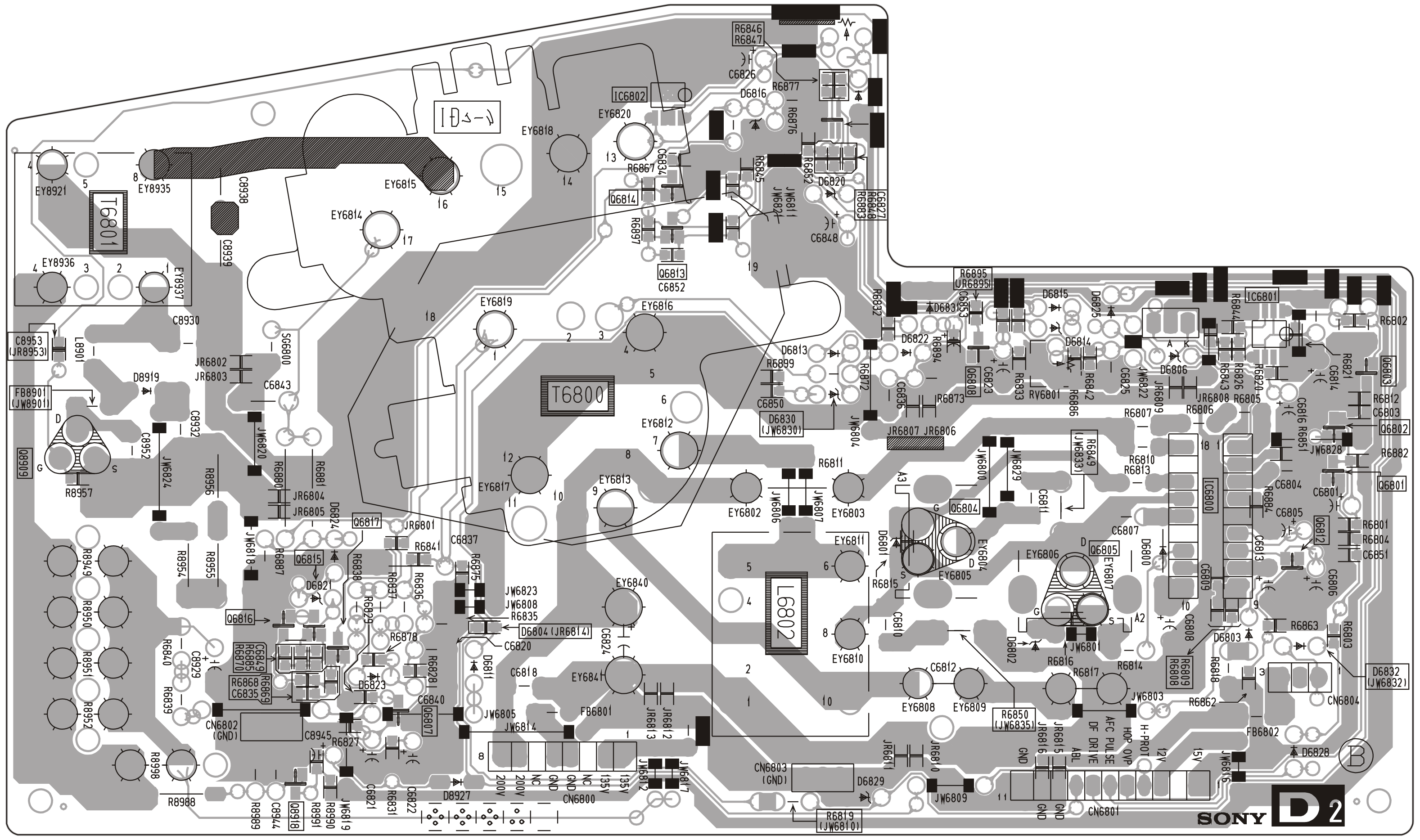

G1..-32NX200U
G1 DIGITAL POWER SUPPLY AND TIMER RECORD FUNCTION
TO G BOARD
CN6013
STD-BY +6V 3
GND 2
RELAY KICK VCC 1
CN4601
3P
WHT
D4612
D1NL20U-TA2
Q4600
DTA144ESA
D4611
1SS133
Q4601
2SC1740S-RT
JL009
R4614
1k
1/4W
R4615
4.7k
1/4W
R4613
2.2M
1/4W
C4624
2.2
50V
RY4601
C4600
4700p
250V
F
CN4600
2P
TO POWER CORD
AC IN 1
AC IN 2
R4600
1
2W
RB
D4600
GBU4JL-6088
C4602
82
450V
C4601
4700p
250V
F
IC4600
STR-L474-LF429
100HZ VIDEO PROCESSOR
R4601
220k
1/2W
R4608
270k
1/2W
R4602
0.47
1/2W
RF
R4603
680k
1/2W
C4603
4700p
2kV
R4604
47
2W
RS
D4601
SARS01V0
T4601
FB4604
5MM
PS4603
D4607
RK34-LF-C4
C4625
2200
16V
C4615
0.1
50V
MPS
L4602
3.3uH
C4616
100
25V
FB4606
5
PS4605
D4609
RJ43-LF-T2
C4629
2200
25V
C4621
0.1
50V
MPS
L4604
3.3uH
C4622
100
25V
D4608
RU4AM-T3
FB4605
5MM
PS4604
C4628
2200
16V
C4618
0.1
50V
MPS
L4603
3.3uH
C4619
100
25V
D4606
BYW100-200RL
FB4603
0.45uH
PS4602
5
C4611
470
50V
C4612
0.1
50V
MPS
L4601
5
C4613
XX
D4605
AG01ZV0
FB4602
0.45uH
PS4601
5
C4608
47
50V
C4609
0.1
100V
PT
L4600
1.1uH
C4610
0.1
100V
PT
CN4602
10P
WHT
1 +7V
2 +7V
3 GND
4 GND
5 GND
6 GND
7 GND
8 +5V
9 +5v
10 ACT PWR RELAY
TO A BOARD
CN1604
CN4603
8P
WHT
1 +33V
2 +23V
3 GND
4 GND
5 +12V
6 +9V
7 GND
8 GND
TO A BOARD
CN1603
R4617
680
1/4W
FPRD
C4605
470p
500V
B
R4616
0.56
2W
RS
C4607
220p
2kV
FB4601
5
D4602
AG01ZV0
R4605
47
1/4W
FPRD
C4604
10
50V
D4603
AG01ZV0
R4607
2.2k
1/4W
D4604
AG01ZV0
C4606
1000p
500V
B
R4609
1.5k
1/4W
R4618
1.8k
1/4W
IC4601
TLP721(D4-GR.T)
R4611
1.2k
1/4W
R4612
1.5k
1/4W
R4610
68
1/4W
FPRD
C4623
0.1
50V
MPS
IC4602
SE-012N-LF4
C
O
G
IC4604
TYA7809CTV
I
O
G
C4626
100
25V
C4627
0.1
50V
MPS
COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL

~ G1 Board Schematic Diagram [Digital Power Supply and Timer Record Function] ~

~ G1 Printed Wiring Board Conductor Side~


SONY G1
CN4603
1-682-848-13
(1-720-459-13)
CN4602
CN4601
CN4600
IC4604
IC4600
RY4601
GND
9V
12V
23V
33V

~ D2 Printed Wiring Board Conductor Side~


SONY D2
T6800
T6801
L6802
IC6800
IC6801
IC6802
CN6800
CN6801
CN6802 (GND)
CN6803 (GND)
CN6804
200V
135V
15V
12V
GND
H-PROT
AFC PULSE
DF DRIVE
ABL

~ D2 Board IC Voltages ~

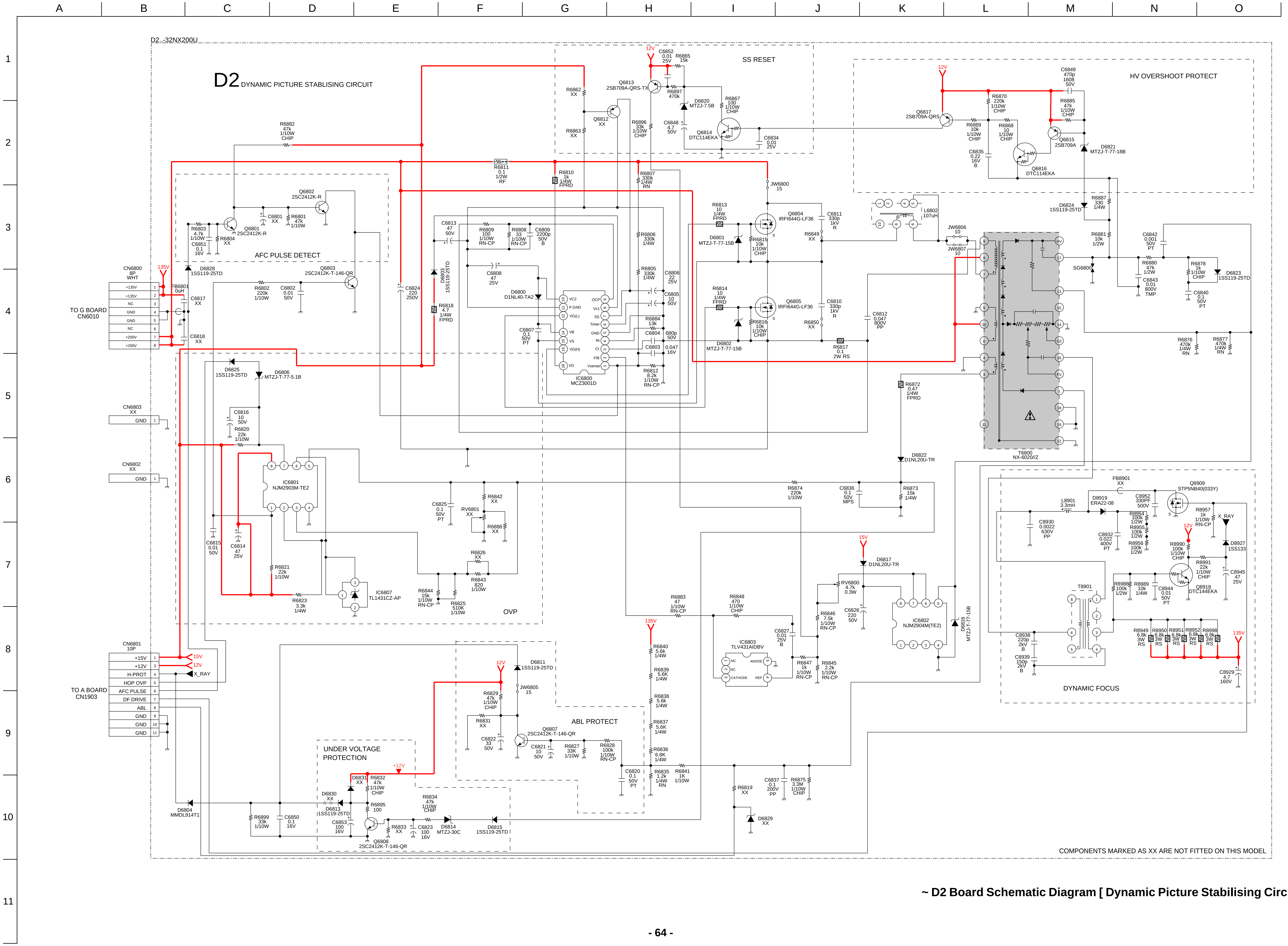
Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)
IC6800	1	1.6	IC6802	1-4	0
	2	1.8		5	6.8
	3	2.3		6	6.7
	4	2.5		7	6.7
	5-6	0		8	14.2
	7	4.6	IC6803	1-2	0
	8	13.9		3	1.7
	9	0		4	1.2
	10	10.2		5	0
	11	0	IC6807	1	2.5
	12	4.4		2	0
	18	196.0		3	2.5
IC6801	1	0			
	2	2.5			
	3	2.1			
	4	0			
	5	2.2			
	6	2.5			
	7	0			
	8	14.7			

~ D2 Board Location Table ~

DIODE		D6803	O - 5	D6813	L - 3	D6817	L - 2	D6823	I - 5	D6829	L - 5	**IC**		IC6803	L - 2	Q6802	O - 3	Q6807	J - 5	Q6815	I - 4
D6800	N - 4	D6804	J - 4	D6814	N - 3	D6820	L - 2	D6824	I - 4	D6830	L - 3	IC6800	N - 4	IC6807	O - 3	Q6803	O - 3	Q6808	M - 3	Q6816	I - 4
D6801	L - 4	D6806	N - 3	D6815	M - 3	D6821	I - 4	D6825	N - 3	D8919	H - 3	IC6801	O - 3	**TRANSISTOR**		Q6804	M - 4	Q6813	K - 2	Q6817	I - 5
D6802	M - 5	D6811	J - 5	D6816	L - 2	D6822	M - 3	D6828	O - 5	D8927	J - 5	IC6802	K - 1	Q6801	O - 4	Q6805	N - 4	Q6814	K - 2	Q8909	H - 3

~ D2 Board Semiconductor Voltages ~

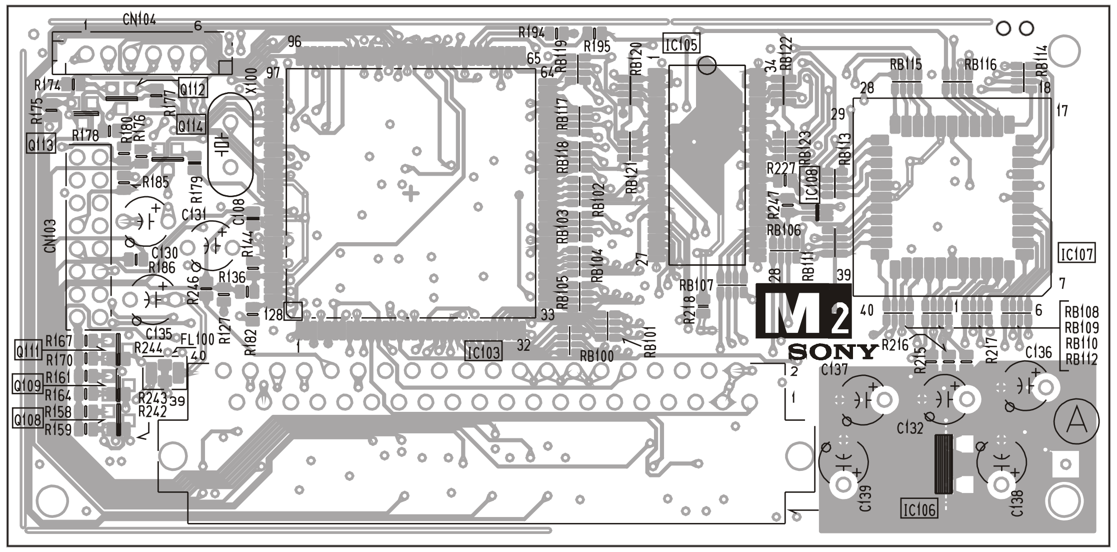
Ref	(e)	(b)	(c)
Q6801	0	0.6	0
Q6802	0	0	1.6
Q6803	0	0	1.6
Q6807	0	0.6	0
Q6808	0	0.6	0
Q6813	11.9	11.4	1.2
Q6814	0	0	11.9
Q6815	11.9	11.9	0
Q6816	0	0	11.7
Q6817	11.9	11.7	0
Q8918	0	6.4	0


D2..-32NX200U
D2 DYNAMIC PICTURE STABLISING CIRCUIT
SS RESET
HV OVERSHOOT PROTECT
AFC PULSE DETECT
OVP
ABL PROTECT
UNDER VOLTAGE PROTECTION
DYNAMIC FOCUS
TO G BOARD CN6010
CN6800 8P WHT
TO A BOARD CN1903
CN6801 10P
CN6803 XX
CN6802 XX
+135V
+200V
NC
GND
+15V
+12V
H-PROT
HOP OVP
AFC PULSE
DF DRIVE
ABL
X_RAY
135V
12V
15V
+12V
IC6800 MCZ3001D
IC6801 NJM2903M-TE2
IC6802 NJM2904M(TE2)
IC6803 TLV431AIDBV
IC6807 TL1431CZ-AP
Q6804 IRFI644G-LF36
Q6805 IRFI644G-LF36
Q6817 2SB709A-QRS
Q6815 2SB709A
Q6816 DTC114EKA
Q6813 2SB709A-QRS-TX
Q6814 DTC114EKA
Q6801 2SC2412K-R
Q6802 2SC2412K-R
Q6803 2SC2412K-T-146-QR
Q6807 2SC2412K-T-146-QR
Q6808 2SC2412K-T-146-QR
Q8909 STP5NB40(033Y)
Q8918 DTC144EKA
T6800 NX-6020//Z
T8901
L6802 107uH
L8901 3.3mH
FB6801 0uH
FB8901 XX
A B C D E F G H I J K L M N O
1 2 3 4 5 6 7 8 9 10 11

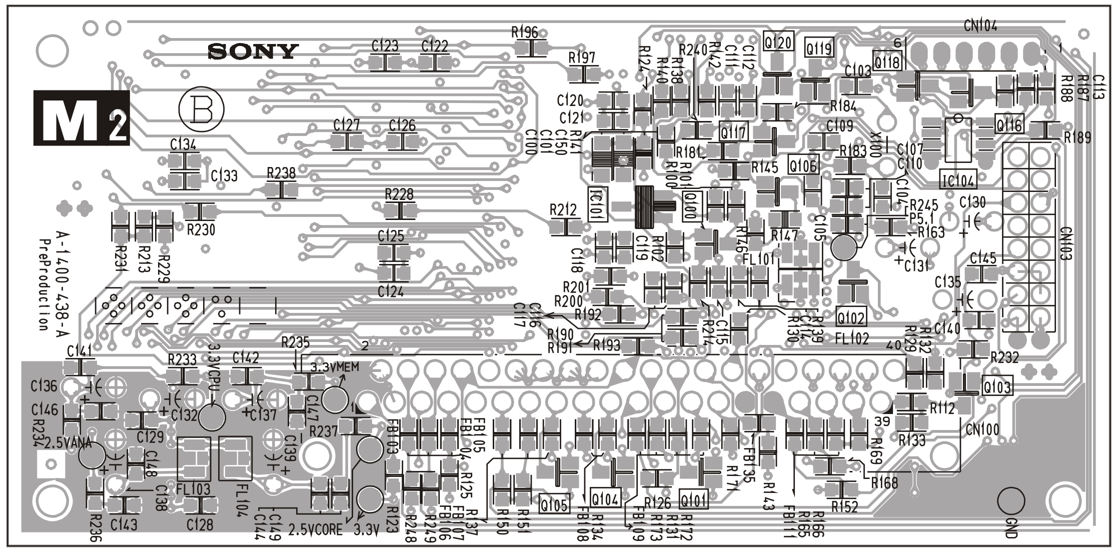
COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL

~ D2 Board Schematic Diagram [Dynamic Picture Stabilising Circuit] ~

~ M2 Printed Wiring Board Conductor side A ~


CN104
CN103
IC103
IC105
IC106
IC107
IC108
X100
Q111
Q105
Q108
Q112
Q113
Q114
FL100
M2
SONY
A

~ M2 Printed Wiring Board Conductor side B ~

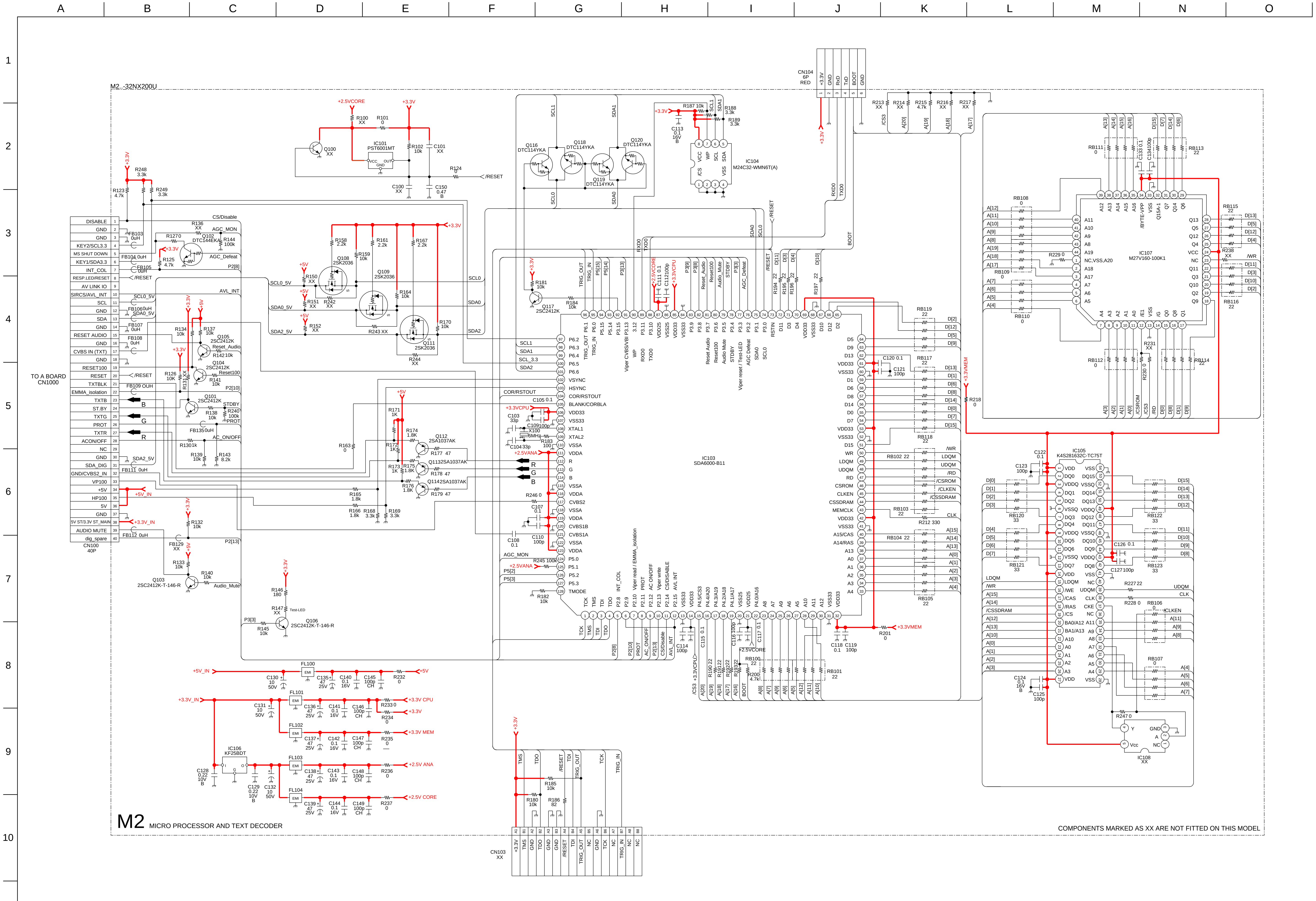

SONY
M2
B
A-1400-438-A
PreProduction
CN104
CN103
CN100
IC101
IC104
Q101
Q102
Q103
Q104
Q105
Q106
Q116
Q117
Q118
Q119
Q120
FL101
FL102
FL103
FL104
2.5VANA
2.5VCORE
3.3V
3.3VMEM
3.3VCPU
GND

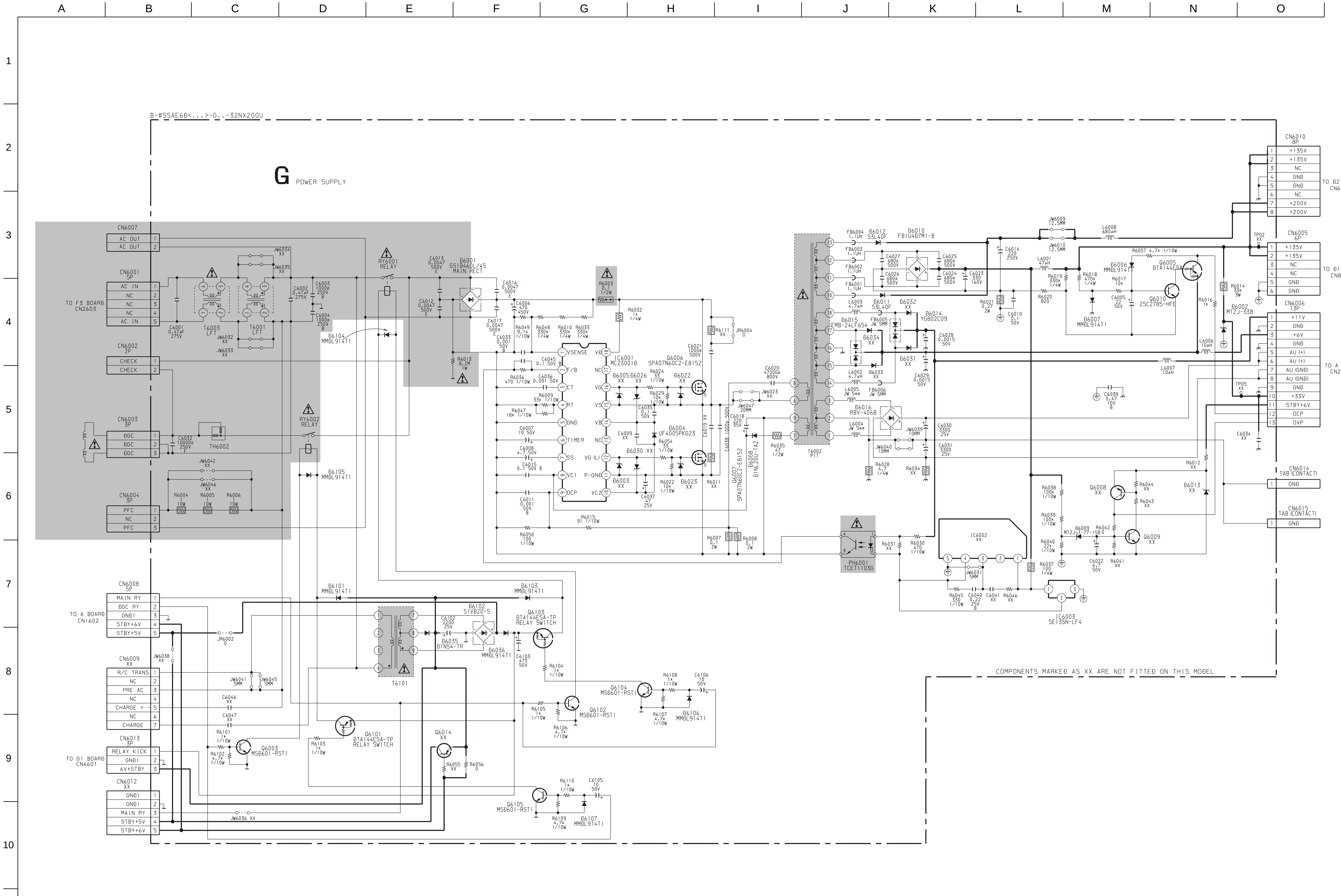
~ M2 Board IC Voltages ~

Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)
IC103	1-3	0.4	IC103	88	3.3	IC105	36	0
	4-5	3.3		89	2.8		37	3.3
	6	0		90	3.3		38	1.5
	7	3.3		91	2.8		39-41	0
	8	2.9		92	3.3		42	0.2
	9	3.6		93-94	0.4		43	3.3
	10	3.3		95	2.7		44	0.2
	11	3.3		96-97	3.3		45	0.8
	12-13	0		98-99	3.0		46	0
	14-15	3.3		100	3.3		47	1.2
	16	0		101	3.3		48	0.8
	17	0.5		102	0		49	3.3
	18	0		103	0.2		50	0.6
	19	0.5		104	0		51	1.9
	20	0		105	0		52	0
	21	2.5		106	3.3		53	1.9
	22-23	0		107	0		54	0
	24	2.4		108	0.7	IC107	1-2	0
	25	1.6		109	0.4		3	0.6
	26	2.4		110	0		4	2.0
	27	2.5		111	2.5		5-6	2.4
	28-29	0.2		112	0.3		7	0.8
	30-31	0		113	0.3		8-11	0.9
	32	3.3		114	0.3		12	1.4
	33	0.7		115	0		13	0
	34-37	0.8		116	2.5		14	2.1
	38	3.1		117	0		15	0.2
	39	2.1		118	0		16	0.4
	40	1.5		119	2.5		17	0.8
	41	0		120	0		18	0.2
	42	3.3		121	1.2		19	1.2
	43	1.5		122	0		20-21	0.9
	44	3.1		123	2.5		22	1.2
	45	3.3		124	0		23	0
	46	2.0		125	2.5		24	3.3
	47	2.1		126	0.6		25	0.5
	48-49	0		127	0.6		26-28	0.9
	50	3.2		128	0		29	1.4
	51	1.9	IC104	1-4	0		30	2.1
	52	0		5-6	3.0		31	1.4
	53	3.3		7-8	3.3		32	2.0
	54	1.4	IC105	1	3.3		33	0
	55	0.2		2	0.2		34	3.3
	56	2.0		3	3.3		35	0
	57	0.4		4	0.7		36-37	1.8
	58	1.3		5	1.2		38	3.0
	59	0.7		6	0		39	0.7
	60	0		7	0.8		40-41	0.2
	61	3.3		8	0.5		42	2.1
	62	0.8		9	3.3		43	1.6
	63	0.4		10	0.9		44	0.7
	64	0.8		11	1.3			
	65	1.2		12	0			
	66-67	0.8		13	1.3			
	68	0		14	3.3			
	69	3.3		15	0			
	70	0.6		16	3.3			
	71	0.8		17-18	1.8			
	72	1.2		19	3.1			
	73	3.0		20	0.6			
	74-75	2.7		21	3.1			
	76	0		22	0.2			
	77-78	3.3		23-26	0.9			
	79	0		27	3.3			
	80	3.3		28	0			
	81	0		29	0.8			
	82-83	2.8		30-31	2.4			
	84	0		32	2.1			
	85	3.3		33	1.5			
	86	0		34	2.0			
	87	2.5		35	0.2			

~ M2 Board Semiconductor Voltages ~

Ref	(s)	(g)	(d)
Q108	2.7	3.3	4.7
Q109	2.7	3.3	4.8
Q111	3.3	3.3	4.9
Ref	**(e)**	**(b)**	**(c)**
Q101	0	0.7	0
Q103	0	0	4.1
Q104	0	0.7	0
Q105	0	0	4.9
Q106	0	0.7	0
Q112	0.9	0.3	0
Q113	0.9	0.3	0
Q114	0.9	0.3	0
Q116	2.6	0	3.0
Q117	0	0.7	0
Q118	3.0	0	2.6
Q119	2.6	0	3.0
Q120	3.0	0	2.6

A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
1
2
3
4
5
6
7
8
9
10
11
M2..-32NX200U
M2
MICRO PROCESSOR AND TEXT DECODER
COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL
TO A BOARD CN1000
CN100 40P
CN104 6P RED
CN103 XX
IC101 PST6001MT
IC103 SDA6000-B11
IC104 M24C32-WMN6T(A)
IC105 K4S281632C-TC75T
IC106 KF25BDT
IC107 M27V160-100K1
IC108 XX
Q100 XX
Q101 2SC2412K
Q102 DTC144EKA
Q103 2SC2412K-T-146-R
Q104 2SC2412K
Q105 2SC2412K
Q106 2SC2412K-T-146-R
Q108 2SK2036
Q109 2SK2036
Q111 2SK2036
Q112 2SA1037AK
Q113 2SA1037AK
Q114 2SA1037AK
Q116 DTC114YKA
Q117 2SC2412K
Q118 DTC114YKA
Q119 DTC114YKA
Q120 DTC114YKA
FL100
FL101
FL102
FL103
FL104
X100 6MHz
DISABLE
GND
KEY2/SCL3.3
MS SHUT DOWN
KEY1/SDA3.3
INT_COL
RESP.LED/RESET
AV LINK IO
SIRCS/AVL_INT
SCL
SDA
RESET AUDIO
CVBS IN (TXT)
RESET100
RESET
TXTBLK
EMMA_isolation
TXTG
ST.BY
TXTG
PROT
TXTR
ACON/OFF
NC
SDA_DIG
GND/CVBS2_IN
VP100
+5V
HP100
5V
5V ST/3.3V ST_MAIN
AUDIO MUTE
dig_spare
CS/Disable
AGC_MON
AGC_Defeat
AVL_INT
Reset_Audio
Reset100
STDBY
PROT
AC_ON/OFF
Audio_Mute
Test-LED
/RESET
SCL0
SDA0
SDA2
SCL0_5V
SDA0_5V
SDA2_5V
+5V_IN
+3.3V_IN
+3.3V CPU
+3.3V
+3.3V MEM
+3.3VMEM
+2.5V ANA
+2.5V CORE
+2.5VCORE
+2.5VANA
+5V
TCK
TMS
TDI
TDO
TRIG_OUT
TRIG_IN
RXD0
TXD0
BOOT
VCC
WP
SCL
SDA
VSS
/CS
LDQM
UDQM
/WR
/RD
/CSROM
/CLKEN
/CSSDRAM
CLK
R
G
B
~ M2 Board Schematic Diagram [Micro Processor and Text Decoder] ~


B-#SSAE6D<...>-G..-32NX200U
G POWER SUPPLY
CN6007
AC OUT
AC OUT
CN6001 5P
AC IN
NC
NC
NC
AC IN
TO F3 BOARD CN2603
CN6002 2P
CHECK
CHECK
CN6003 3P
DGC
DGC
DGC
CN6004 3P
PFC
NC
PFC
T6003 LFT
T6001 LFT
TH6002
RY6001 RELAY
RY6002 RELAY
D6001 GSIB460L/45 MAIN RECT
D6104 MMDL914T1
D6105 MMDL914T1
IC6001 MCZ3001D
Q6006 SPA07N60C2-E8152
Q6007 SPA07N60C2-E8152
D6004 UF4005PKG23
D6008 D1NL20U-TA2
T6002 PIT
PH6001 TCET1103G
IC6002 XX
IC6003 SE135N-LF4
D6010 FB1U4D7M1-B
D6012 S3L40F
D6011 S3L40F
D6014 YG802C09
D6015 EMB-24LF654
D6016 RBV-406B
Q6005 DTA144ESA
Q6010 2SC2785-HFE
D6002 MTZJ-33B
D6009 MTZJ-T-77-15B
Q6008 XX
Q6009 XX
CN6010 8P
+135V
+135V
NC
GND
GND
NC
+200V
+200V
TO D2 BOARD CN6800
CN6005 6P
+135V
+135V
NC
NC
GND
GND
TO D1 BOARD CN8615
CN6006 13P
+11V
GND
+6V
GND
AU (+)
AU (+)
AU (GND)
AU (GND)
GND
+33V
STBY+6V
OCP
OVP
TO A BOARD CN2000
CN6014 TAB (CONTACT)
GND
CN6015 TAB (CONTACT)
GND
CN6008 5P
MAIN RY
DGC RY
GND1
STBY+6V
STBY+5V
TO A BOARD CN1602
CN6009 XX
R/C TRANS
NC
PRE AC
NC
CHARGE +
NC
CHARGE
CN6013 3P
RELAY KICK
GND1
6V+STBY
TO G1 BOARD CN4601
CN6012 XX
GND1
GND1
MAIN RY
STBY+5V
STBY+6V
T6101
D6101 MMDL914T1
D6103 MMDL914T1
D6102 S1VB20-S
D6035 D1NS4-TR
D6036 MMDL914T1
Q6103 DTA144ESA-TP RELAY SWITCH
Q6101 DTA144ESA-TP RELAY SWITCH
Q6104 MSD601-RST1
Q6102 MSD601-RST1
Q6105 MSD601-RST1
Q6003 MSD601-RST1
Q6014 XX
D6106 MMDL914T1
D6107 MMDL914T1
COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL

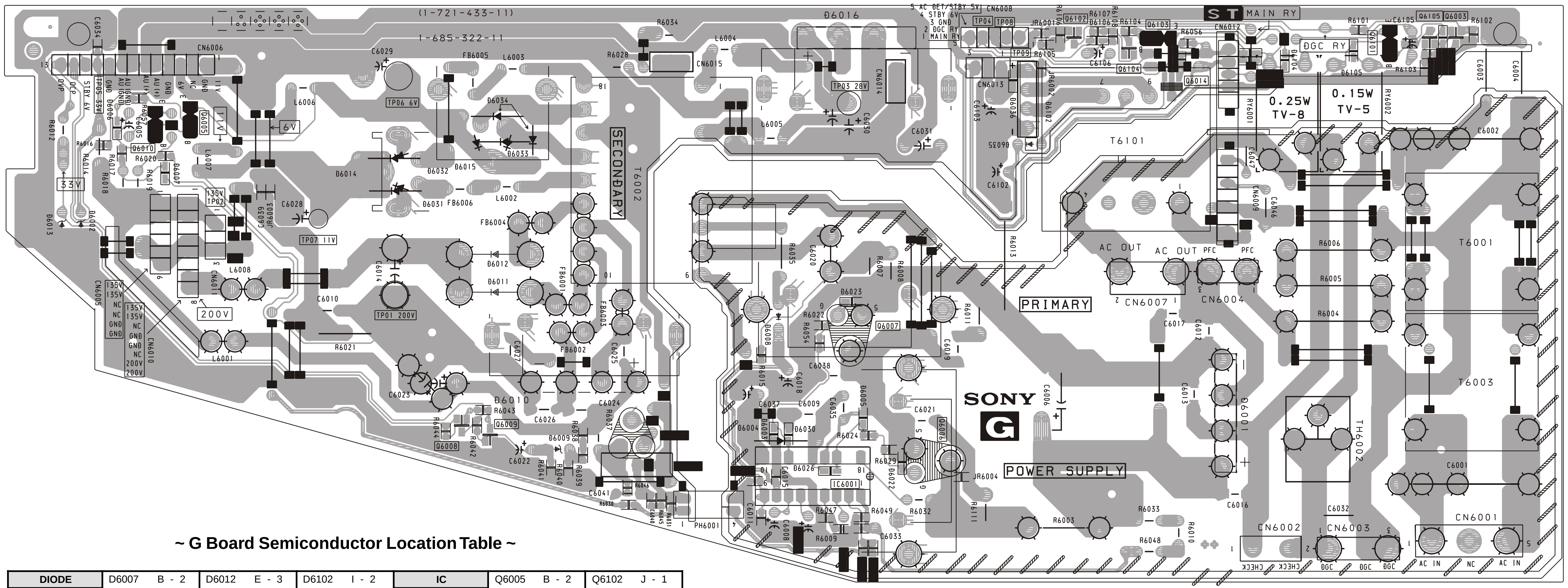
~ G Board Schematic Diagram [Power Supply] ~

~ G Board IC Voltages ~

IC Voltage Table		
Ref No	Pin No	Voltage (V)
IC6003	1	134.0
	2	11.3
	3	0

~ G Board Semiconductor Voltages ~

Ref	(e)	(b)	(c)
Q6003	0	0.3	10.9
Q6005	7.1	6.9	0.6
Q6010	0	0.5	6.9
Q6101	23.8	23.6	11.0
Q6102	0	0.7	0
Q6103	23.7	23.4	10.4
Q6104	0	0	23.4
Q6105	0	0	23.6

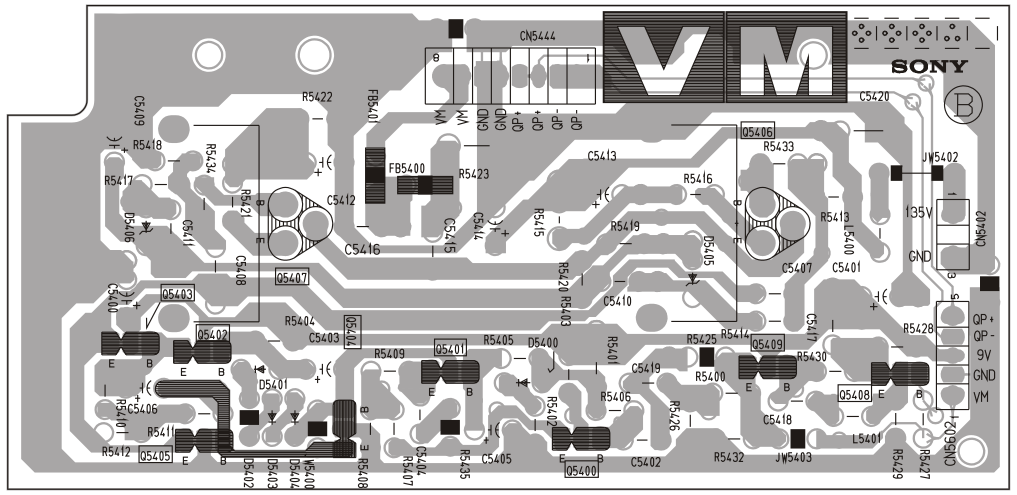

1-721-433-11
1-685-322-11
SECONDARY
PRIMARY
POWER SUPPLY
SONY
G
S T MAIN RY
DGC RY
0.25W TV-8
0.15W TV-5
T6001
T6002
T6003
T6101
TH6002
IC6001
CN6001
CN6002
CN6003
CN6004
CN6005
CN6006
CN6007
CN6010
CN6013
CN6014
CN6015
TP01 200V
TP02 135V
TP03 28V
TP04
TP05 33V
TP06 6V
TP07 11V
TP08
TP09
200V
135V
33V
11V
6V
AC OUT
AC OUT PFC
PFC
AC IN
NC
GND
DGC
CHECK

~ G Printed Wiring Board Conductor side ~

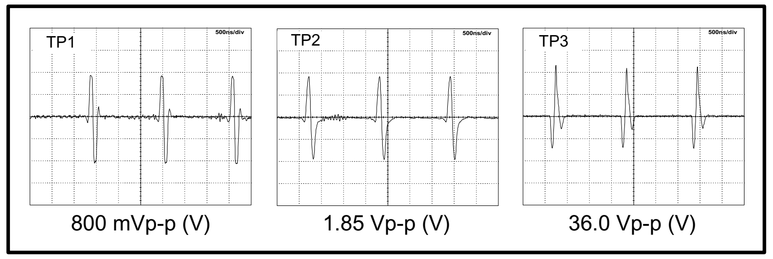
~ G Board Semiconductor Location Table ~

DIODE		D6007	B - 2	D6012	E - 3	D6102	I - 2	**IC**		Q6005	B - 2	Q6102	J - 1
D6001	K - 4	D6008	G - 3	D6014	D - 2	D6104	K - 1	IC6001	H - 5	Q6006	H - 4	Q6103	J - 1
D6002	A - 2	D6009	E - 4	D6015	E - 2	D6105	L - 1	IC6003	F - 4	Q6007	H - 3	Q6104	J - 1
D6004	G - 4	D6010	E - 4	D6016	H - 1	D6106	J - 1	**TRANSISTOR**		Q6010	B - 2	Q6105	M - 1
D6006	B - 2	D6011	E - 3	D6035	I - 2	D6107	M - 1	Q6003	M - 1	Q6101	L - 1		

~ VM Printed Wiring Board Conductor side ~


VM
SONY
B
CN5444
CN5402
JW5402
JW5403
135V
GND
QP+
QP-
9V
GND
VM
Q5400
Q5401
Q5402
Q5403
Q5405
Q5406
Q5407
Q5408
Q5409
FB5400
FB5401
C5416
C5412
C5413
C5420
R5416
R5418
R5422
R5423
R5433
D5401
D5405

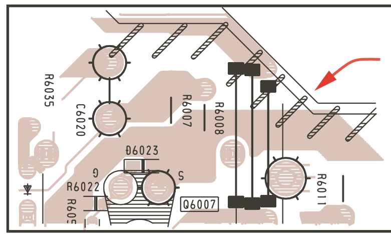
~ VM Board Waveforms ~



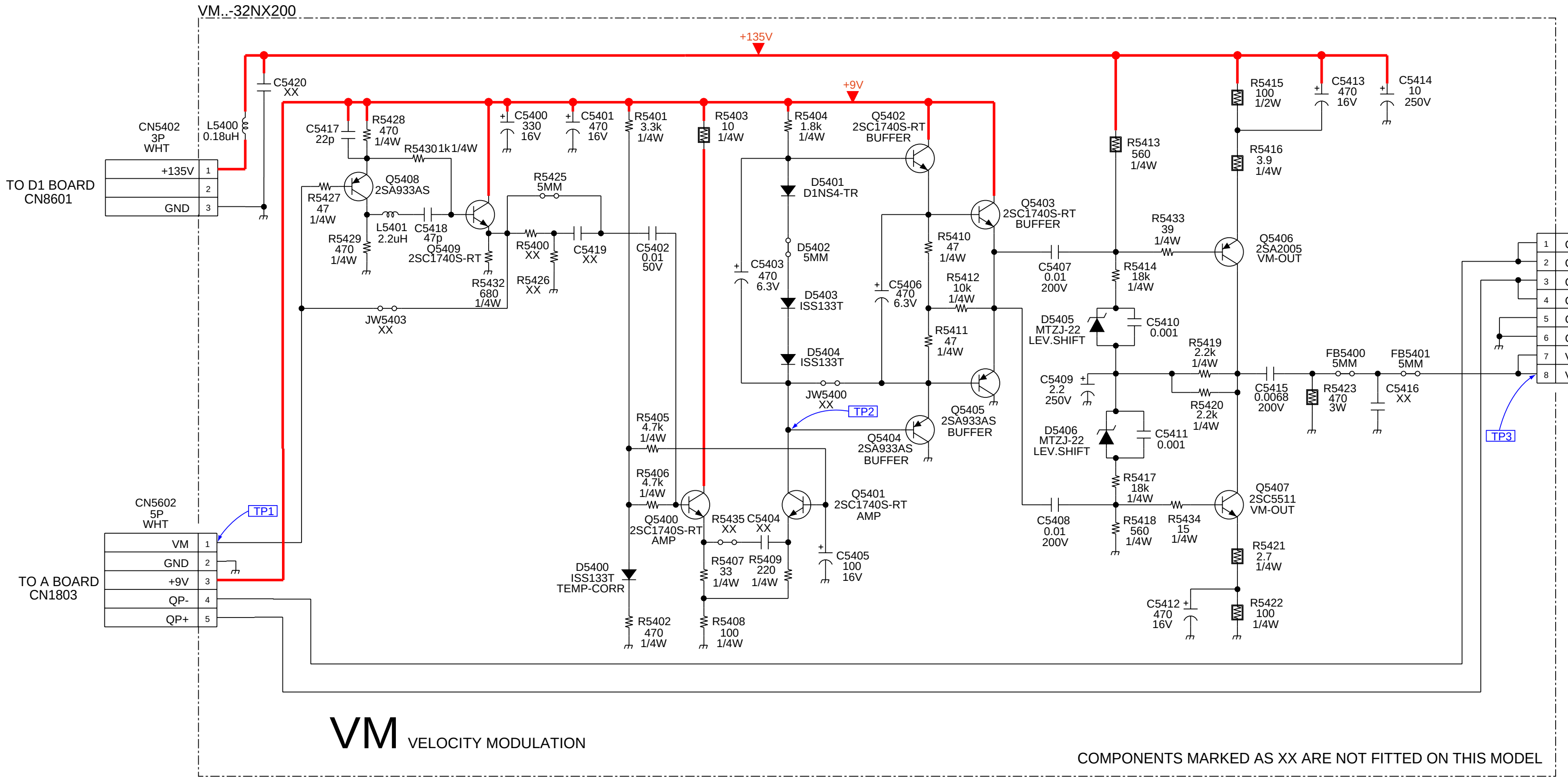
800 mVp-p (V) 1.85 Vp-p (V) 36.0 Vp-p (V)

~ VM Board Semiconductor Voltages ~

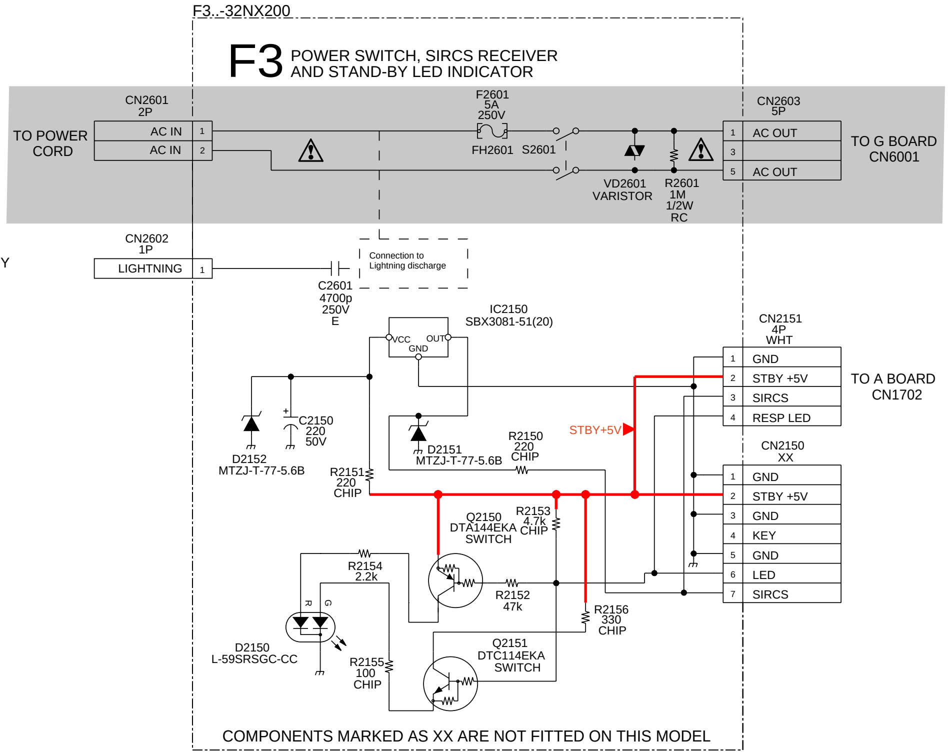
Ref	(e)	(b)	(c)
Q5400	0.9	1.5	8.8
Q5401	0.9	1.6	5.0
Q5402	5.8	6.4	8.8
Q5403	5.6	5.8	8.8
Q5404	5.6	5.0	0
Q5405	5.6	5.6	0
Q5406	133.9	133.6	67.2
Q5407	1.0	1.3	67.2
Q5408	3.9	3.1	3.9
Q5409	3.9	3.2	8.8


R6035
C6020
R6007
R6008
D6023
R6022
R6054
Q6007
R6011

Note :
Portions of the circuit contained within the marked areas as shown have high voltages present. Use care to prevent electric shock during inspection or repair. An Isolation Transformer must be used during any Service work to avoid possible shock hazard due to live chassis. The chassis of this receiver is directly connected to the power line.


VM..-32NX200
+135V
+9V
CN5402 3P WHT
TO D1 BOARD CN8601
+135V
GND
L5400 0.18uH
C5420 XX
C5417 22p
R5428 470 1/4W
R5430 1k 1/4W
C5400 330 16V
C5401 470 16V
R5401 3.3k 1/4W
R5403 10 1/4W
R5404 1.8k 1/4W
Q5402 2SC1740S-RT BUFFER
R5427 47 1/4W
Q5408 2SA933AS
R5425 5MM
L5401 2.2uH
C5418 47p
Q5409 2SC1740S-RT
R5429 470 1/4W
R5400 XX
C5419 XX
C5402 0.01 50V
R5432 680 1/4W
R5426 XX
JW5403 XX
D5401 D1NS4-TR
D5402 5MM
C5403 470 6.3V
D5403 ISS133T
D5404 ISS133T
C5406 470 6.3V
R5410 47 1/4W
R5412 10k 1/4W
R5411 47 1/4W
Q5403 2SC1740S-RT BUFFER
Q5405 2SA933AS BUFFER
Q5404 2SA933AS BUFFER
JW5400 XX
TP2
R5405 4.7k 1/4W
R5406 4.7k 1/4W
Q5400 2SC1740S-RT AMP
R5435 XX
C5404 XX
Q5401 2SC1740S-RT AMP
R5407 33 1/4W
R5409 220 1/4W
C5405 100 16V
D5400 ISS133T TEMP-CORR
R5402 470 1/4W
R5408 100 1/4W
R5413 560 1/4W
R5415 100 1/2W
C5413 470 16V
C5414 10 250V
R5416 3.9 1/4W
R5433 39 1/4W
C5407 0.01 200V
R5414 18k 1/4W
Q5406 2SA2005 VM-OUT
D5405 MTZJ-22 LEV.SHIFT
C5410 0.001
R5419 2.2k 1/4W
C5409 2.2 250V
R5420 2.2k 1/4W
C5415 0.0068 200V
R5423 470 3W
FB5400 5MM
FB5401 5MM
C5416 XX
D5406 MTZJ-22 LEV.SHIFT
C5411 0.001
R5417 18k 1/4W
C5408 0.01 200V
R5418 560 1/4W
R5434 15 1/4W
Q5407 2SC5511 VM-OUT
R5421 2.7 1/4W
C5412 470 16V
R5422 100 1/4W
CN5444 8P :BTOB
QP-
QP-
QP+
QP+
GND
GND
VM
VM
TO NECK ASSY
TP3
CN5602 5P WHT
TO A BOARD CN1803
VM
GND
+9V
QP-
QP+
TP1
VM VELOCITY MODULATION
COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL

~ VM Board Schematic Diagram [Velocity Modulation] ~

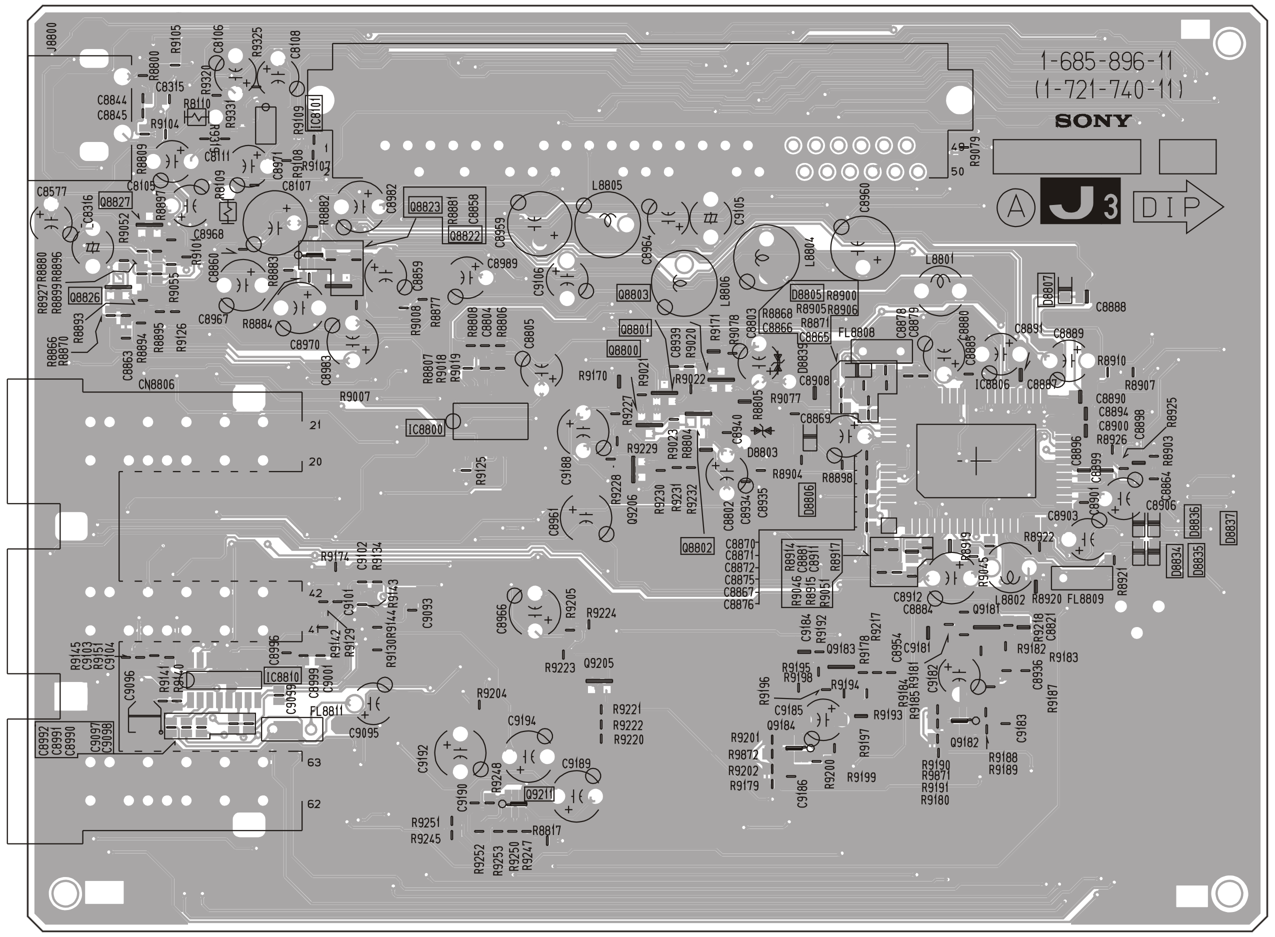

F3..-32NX200
F3 POWER SWITCH, SIRCS RECEIVER AND STAND-BY LED INDICATOR
TO POWER CORD
CN2601 2P
AC IN
AC IN
F2601 5A 250V
FH2601
S2601
VD2601 VARISTOR
R2601 1M 1/2W RC
CN2603 5P
AC OUT
AC OUT
TO G BOARD CN6001
CN2602 1P
LIGHTNING
C2601 4700p 250V E
Connection to Lightning discharge
IC2150 SBX3081-51(20)
VCC OUT GND
CN2151 4P WHT
GND
STBY +5V
SIRCS
RESP LED
TO A BOARD CN1702
D2152 MTZJ-T-77-5.6B
C2150 220 50V
D2151 MTZJ-T-77-5.6B
R2150 220 CHIP
STBY+5V
R2151 220 CHIP
CN2150 XX
GND
STBY +5V
GND
KEY
GND
LED
SIRCS
Q2150 DTA144EKA SWITCH
R2153 4.7k CHIP
R2154 2.2k
R2152 47k
R2156 330 CHIP
D2150 L-59SRSGC-CC
R2155 100 CHIP
Q2151 DTC114EKA SWITCH
COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL

~ F3 Board Schematic Diagram [Power Switch, SIRCS Receiver and Stand-By LED Indicator] ~

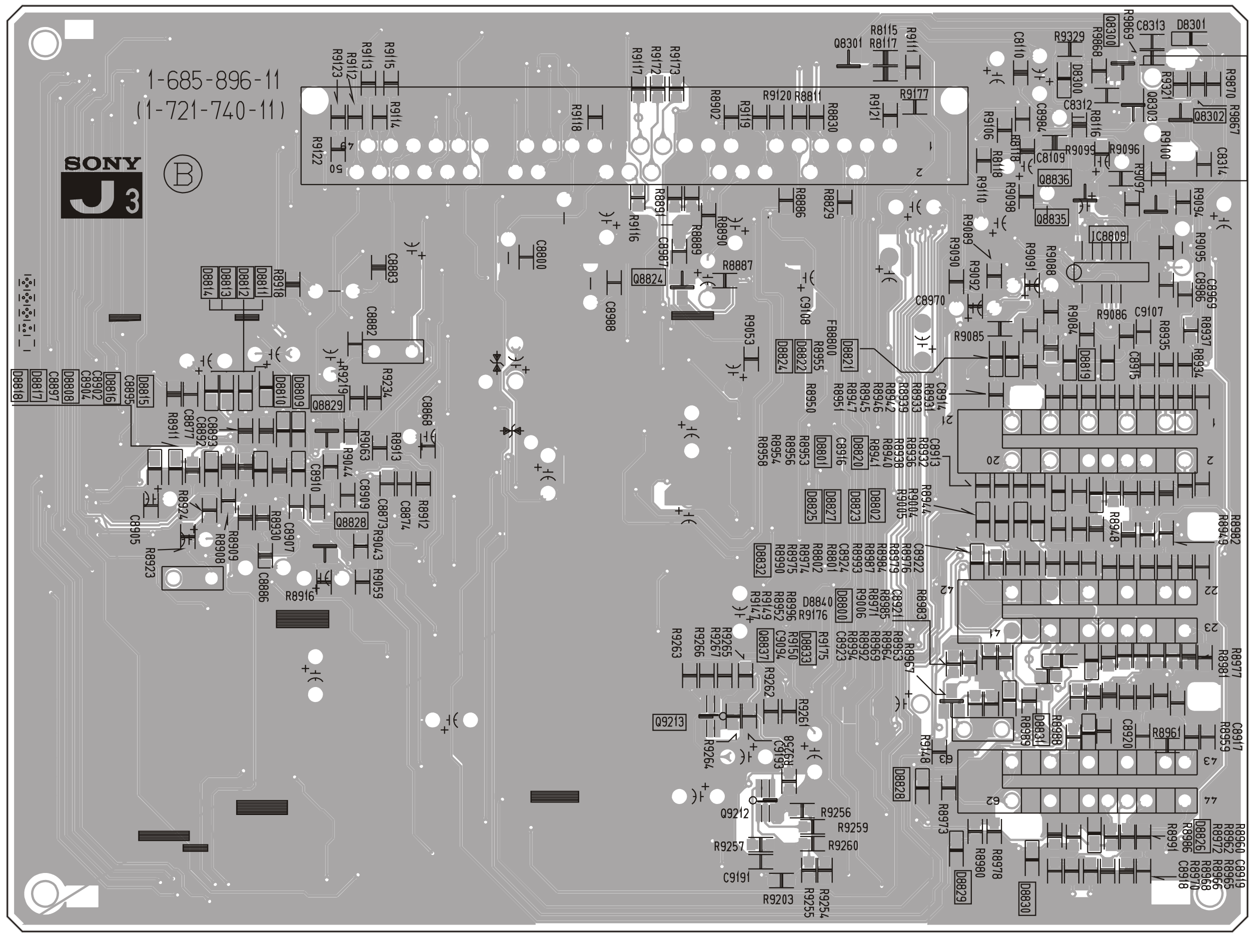
A B C D E F G H I J K L M N O

1 2 3 4 5 6 7 8 9 10 11

~ J3 Printed Wiring Board Conductor side A ~


1-685-896-11
(1-721-740-11)
SONY
A
J3
DIP
IC8800
IC8806
IC8810
CN8806
Q8823
Q8822
Q8826
Q8827
Q8803
Q8801
Q8802
Q9211
D8805
D8803
FL8808
FL8809
FL8811
L8801
L8805

~ J3 Printed Wiring Board Conductor side B ~


1-685-896-11
(1-721-740-11)
SONY
J3
B
IC8805
Q8300
Q8301
Q8302
Q8303
Q8824
Q8828
Q8829
Q8835
Q8836
Q9212
Q9213

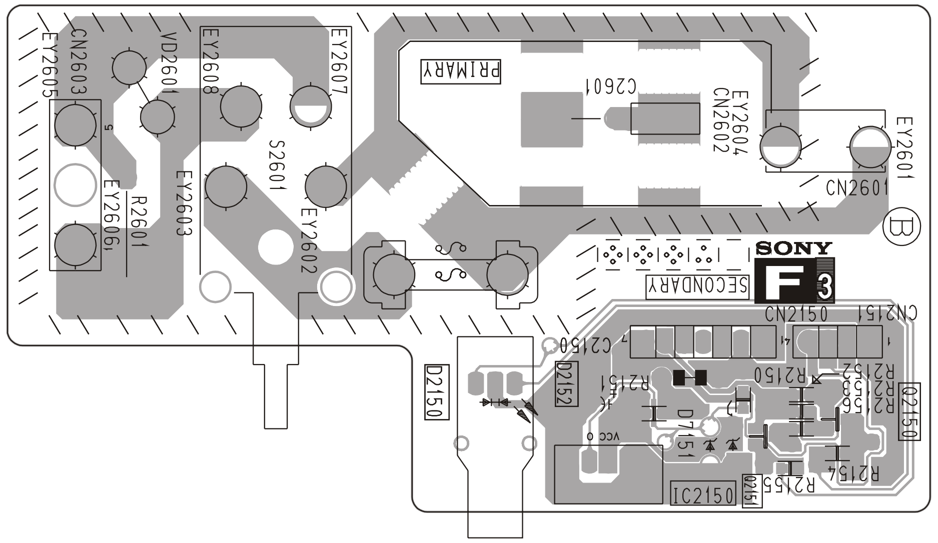
~ J3 Board Location Table A side ~

DIODE		D8839	E - 3	IC8810	B - 5	Q8823	C - 2	Q9183	E - 5
D8803	E - 3	IC		TRANSISTORS		Q8826	B - 2	Q9184	E - 5
D8805	E - 3	IC8101	B - 2	Q8802	E - 3	Q8827	B - 2	Q9205	D - 5
D8806	E - 3	IC8800	C - 3	Q8803	E - 3	Q9181	F - 4	Q9206	D - 4
D8807	G - 3	IC8806	F - 4	Q8822	C - 3	Q9182	F - 5	Q9211	D - 5

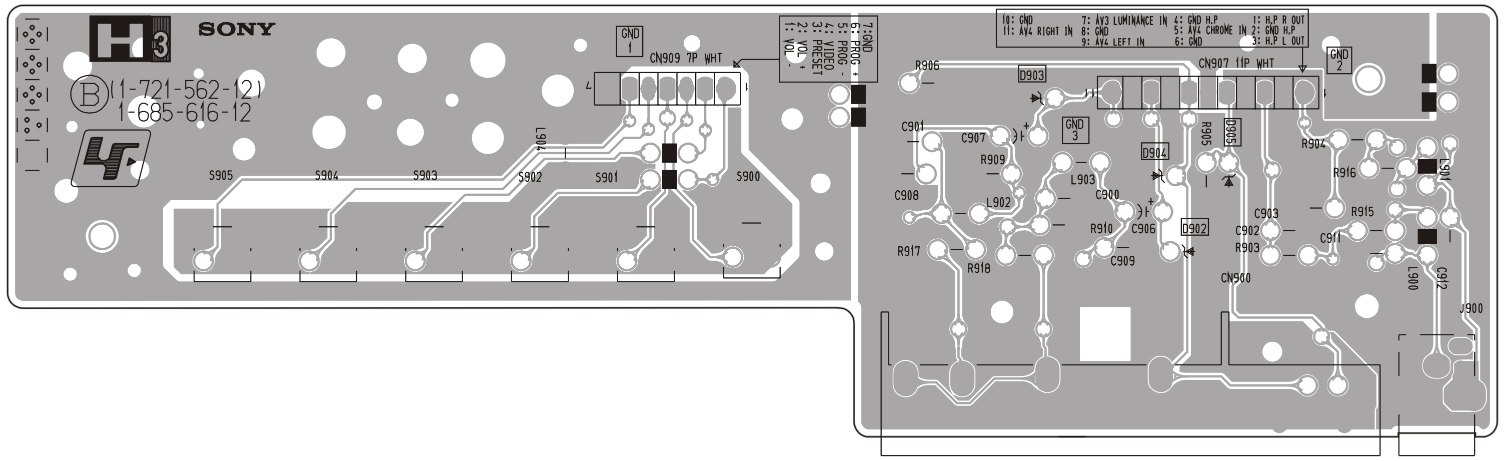
~ J3 Board Location Table B side ~

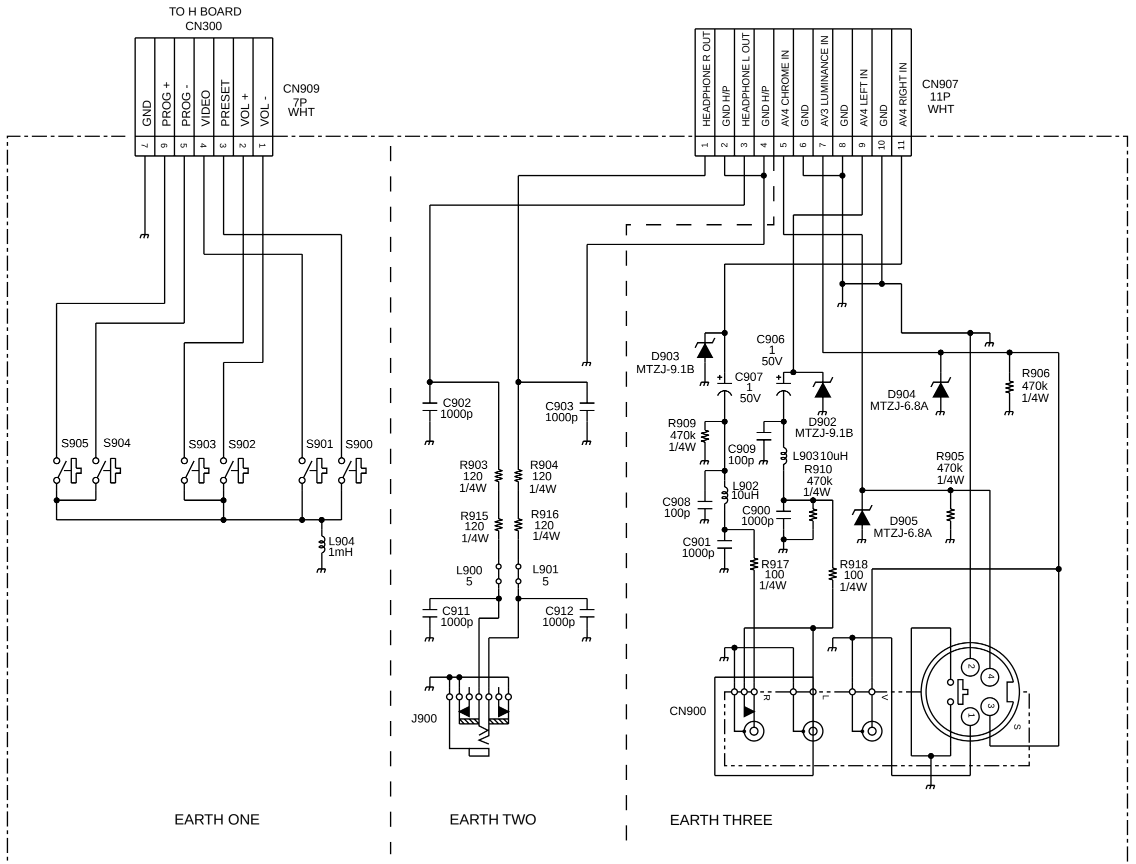
DIODE		D8809	J - 3	D8814	I - 3	D8819	N - 3	D8824	M - 3	D8829	M - 5	D8840	N - 4	Q8301	M - 1	Q8829	J - 4
D8300	N - 2	D8810	J - 3	D8815	J - 3	D8820	N - 4	D8825	M - 4	D8830	M - 5	IC		Q8302	N - 2	Q8835	N - 2
D8800	N - 4	D8811	I - 3	D8816	I - 3	D8821	N -3	D8826	N - 5	D8831	N - 5	IC8809	N - 2	Q8303	N - 2	Q8837	M - 5
D8801	N - 4	D8812	I - 3	D8817	I - 3	D8822	M - 3	D8827	M - 4	D8832	M -4	TRANSISTORS		Q8824	L - 3	Q9212	L - 5
D8802	N - 4	D8813	I - 3	D8818	I - 3	D8823	M - 4	D8828	M - 5	D8833	M - 5	Q8300	N - 1	Q8828	J - 4	Q9213	L - 5

~ F3 Printed Wiring Board Conductor side ~


CN2603
EY2605
VD2601
EY2608
EY2607
PRIMARY
C2601
EY2604
CN2602
EY2601
CN2601
S2601
EY2603
EY2602
R2601
EY2606
B
SONY
F3
SECONDARY
CN2150
CN2151
C2150
D2150
D2152
R2151
R2150
R2152
D2151
Q2150
IC2150
R2155
R2154

~ H3 Printed Wiring Board Conductor side ~


H3
SONY
B
(1-721-562-12)
1-685-616-12
CN909 7P WHT
CN907 11P WHT
S905
S904
S903
S902
S901
S900
L904
R906
D903
C901
C907
R909
L902
L903
C908
C920
R910
C906
D904
D902
C903
C902
R903
C911
R916
R915
R917
R918
C909
CN960
L900
C912
J900


TO H BOARD
CN300
GND
PROG +
PROG -
VIDEO
PRESET
VOL +
VOL -
7
6
5
4
3
2
1
CN909
7P
WHT
S905
S904
S903
S902
S901
S900
L904
1mH
HEADPHONE R OUT
GND H/P
HEADPHONE L OUT
GND H/P
AV4 CHROME IN
GND
AV3 LUMINANCE IN
GND
AV4 LEFT IN
GND
AV4 RIGHT IN
1
2
3
4
5
6
7
8
9
10
11
CN907
11P
WHT
C902
1000p
C903
1000p
R903
120
1/4W
R904
120
1/4W
R915
120
1/4W
R916
120
1/4W
L900
5
L901
5
C911
1000p
C912
1000p
J900
D903
MTZJ-9.1B
C906
1
50V
C907
1
50V
D902
MTZJ-9.1B
D904
MTZJ-6.8A
R906
470k
1/4W
R909
470k
1/4W
C909
100p
L903 10uH
R910
470k
1/4W
R905
470k
1/4W
C908
100p
L902
10uH
C900
1000p
D905
MTZJ-6.8A
C901
1000p
R917
100
1/4W
R918
100
1/4W
CN900
R
L
V
2
4
3
1
S
EARTH ONE
EARTH TWO
EARTH THREE

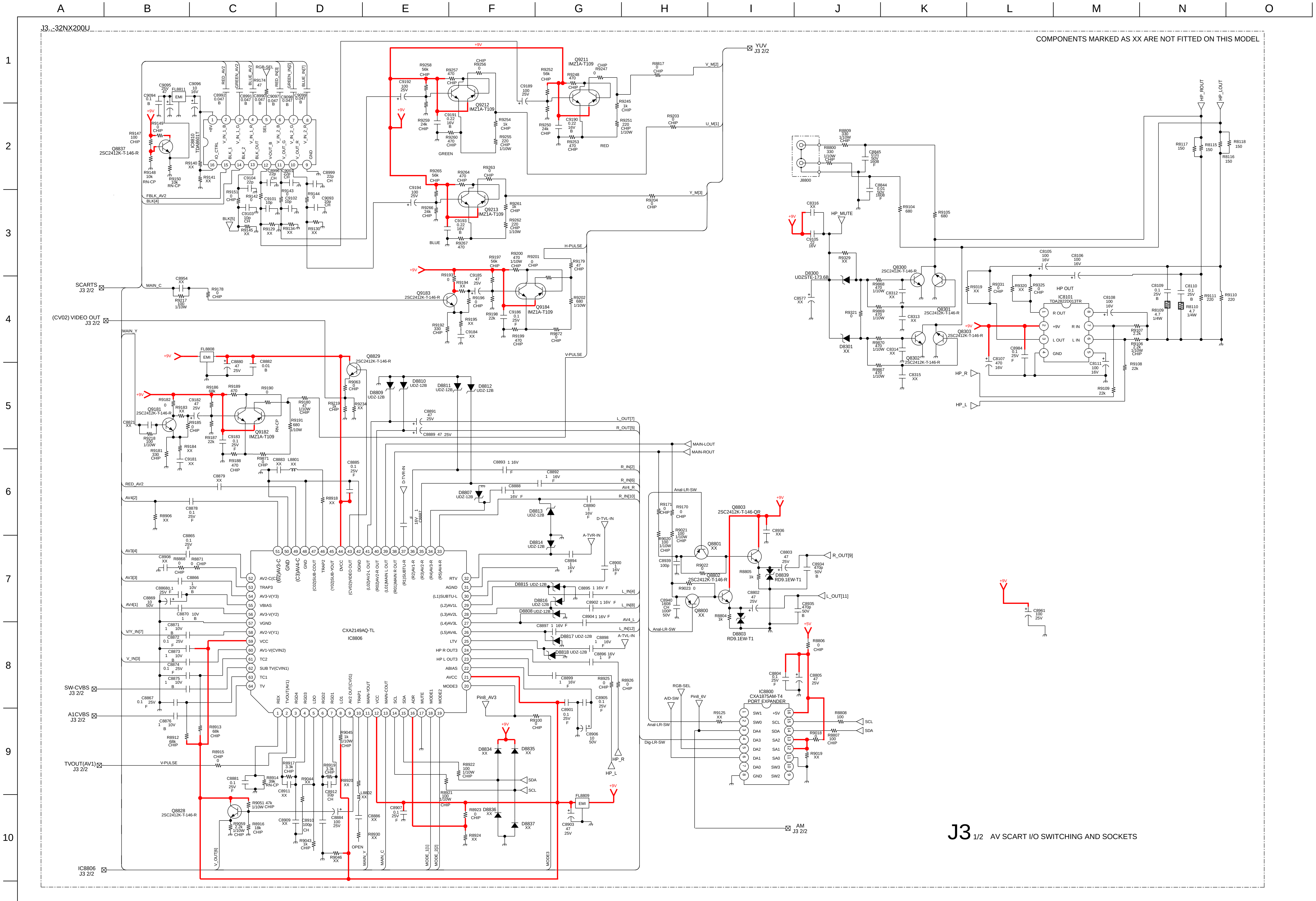
TO IMPROVE EARTH PERFORMANCE
TO CONNECT EARTH ONE TO EARTH THREE FIT JW 7604 AND JW 7605 TO CONNECT EARTH TWO TO EARTH THREE FIT JW 7610 AND JW 7611

H3 FRONT AV INPUT, HEADPHONE & CONTROL SWITCHES

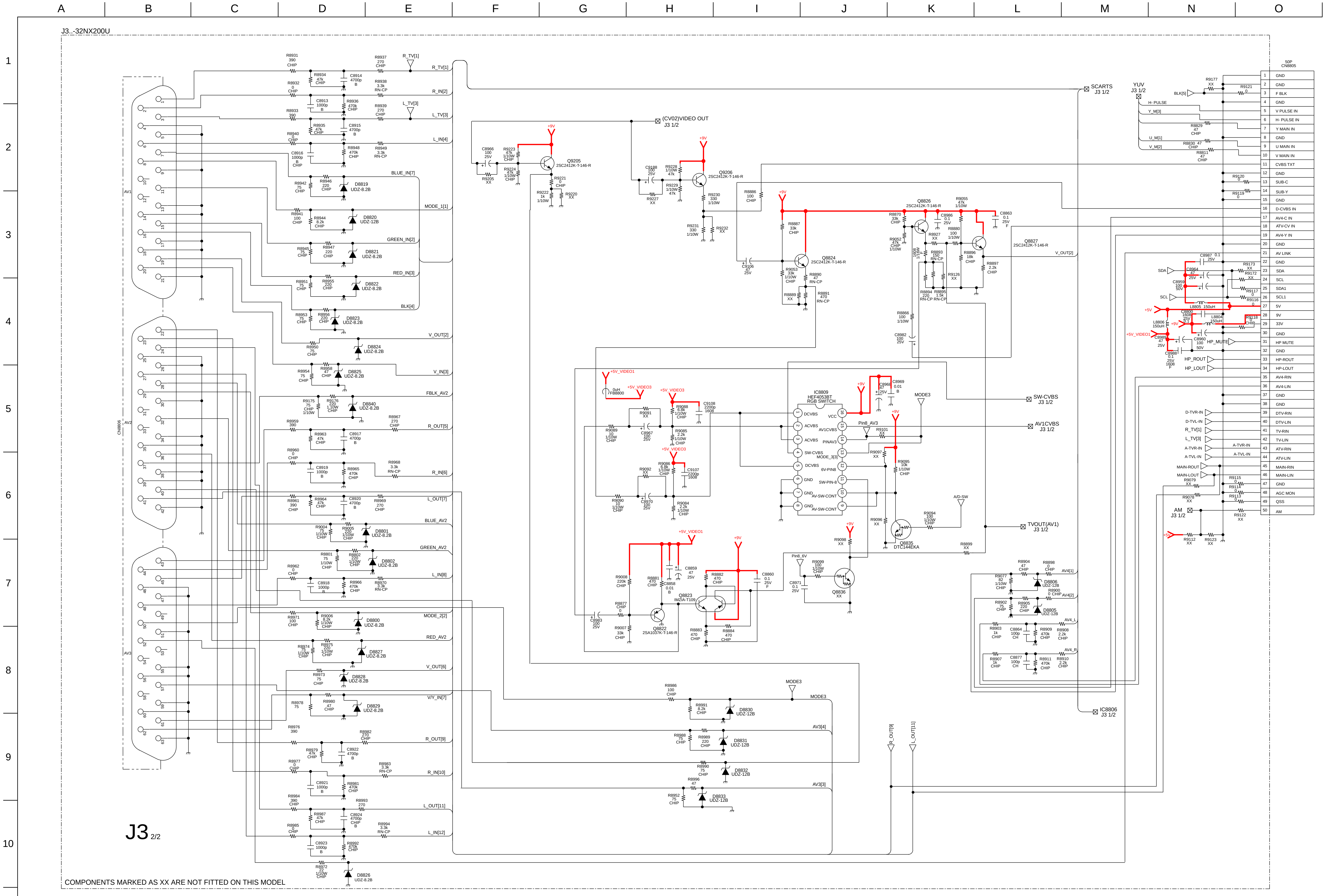
COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL

H3..-32NX200

~ H3 Board Schematic Diagram [Front AV Input, Headphone and Control Switches] ~


J3 -32NX200U
COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
1
2
3
4
5
6
7
8
9
10
11
YUV
J3 2/2
SCARTS
J3 2/2
(CV02) VIDEO OUT
J3 2/2
SW-CVBS
J3 2/2
A1CVBS
J3 2/2
TVOUT(AV1)
J3 2/2
IC8806
J3 2/2
AM
J3 2/2
IC8810
TDA8601T
Q8837
2SC2412K-T-146-R
Q9211
IMZ1A-T109
Q9212
IMZ1A-T109
Q9213
IMZ1A-T109
Q9183
2SC2412K-T-146-R
Q9184
IMZ1A-T109
Q8829
2SC2412K-T-146-R
Q9181
2SC2412K-T-146-R
Q9182
IMZ1A-T109
Q8828
2SC2412K-T-146-R
CXA2149AQ-TL
IC8806
Q8803
2SC2412K-T-146-QR
Q8801
Q8802
2SC2412K-T-146-R
Q8800
D8839
RD9.1EW-T1
D8803
RD9.1EW-T1
IC8800
CXA1875AM-T4
PORT EXPANDER
IC8101
TDA2822D013TR
HP OUT
Q8300
2SC2412K-T-146-R
Q8301
2SC2412K-T-146-R
Q8302
2SC2412K-T-146-R
Q8303
2SC2412K-T-146-R
D8300
UDZSTE-173.6B
D8301
J8800
HP_MUTE
HP_ROUT
HP_LOUT
HP_R
HP_L
FL8808
EMI
FL8809
EMI
FL8811
EMI
GREEN
BLUE
RED
H-PULSE
V-PULSE
MAIN_C
MAIN_Y
RED_AV2
MAIN-LOUT
MAIN-ROUT
R_OUT[9]
L_OUT[11]
SCL
SDA
RGB-SEL
A/D-SW
Pin8_6V
Pin8_AV3
Anal-LR-SW
Dig-LR-SW
D-TVL-IN
A-TVR-IN
A-TVL-IN
D-TVR-IN
V_M[2]
U_M[1]
Y_M[3]
L_OUT[7]
R_OUT[5]
R_IN[2]
R_IN[6]
R_IN[10]
L_IN[4]
L_IN[8]
L_IN[12]
AV4_R
AV4_L
+9V
+5V
J3 1/2 AV SCART I/O SWITCHING AND SOCKETS

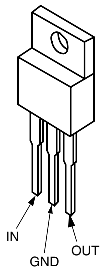
~ J3 Board Schematic Diagram [AV Scart I/O Switching and Sockets] Page 1/2 ~


A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
1
2
3
4
5
6
7
8
9
10
11
J3..-32NX200U
J3 2/2
CN8806
AV1
AV2
AV3
R_TV[1]
R_IN[2]
L_TV[3]
L_IN[4]
BLUE_IN[7]
MODE_1[1]
GREEN_IN[2]
RED_IN[3]
BLK[4]
V_OUT[2]
V_IN[3]
FBLK_AV2
R_OUT[5]
R_IN[6]
L_OUT[7]
BLUE_AV2
GREEN_AV2
L_IN[8]
MODE_2[2]
RED_AV2
V_OUT[6]
V/Y_IN[7]
R_OUT[9]
R_IN[10]
L_OUT[11]
L_IN[12]
SCARTS J3 1/2
(CV02)VIDEO OUT J3 1/2
Q9205 2SC2412K-T-146-R
Q9206 2SC2412K-T-146-R
Q8826 2SC2412K-T-146-R
Q8827 2SC2412K-T-146-R
Q8824 2SC2412K-T-146-R
IC8809 HEF4053BT RGB SWITCH
SW-CVBS J3 1/2
AV1CVBS J3 1/2
TVOUT(AV1) J3 1/2
Q8835 DTC144EKA
Q8823 IMZ1A-T109
Q8822 2SA1037K-T-146-R
Q8836
MODE3
IC8806 J3 1/2
YUV J3 1/2
AM J3 1/2
50P CN8805
1 GND
2 GND
3 F BLK
4 GND
5 V PULSE IN
6 H- PULSE IN
7 Y MAIN IN
8 GND
9 U MAIN IN
10 V MAIN IN
11 CVBS TXT
12 GND
13 SUB-C
14 SUB-Y
15 GND
16 D-CVBS IN
17 AV4-C IN
18 ATV-CV IN
19 AV4-Y IN
20 GND
21 AV LINK
22 GND
23 SDA
24 SCL
25 SDA1
26 SCL1
27 5V
28 9V
29 33V
30 GND
31 HP MUTE
32 GND
33 HP-ROUT
34 HP-LOUT
35 AV4-RIN
36 AV4-LIN
37 GND
38 GND
39 DTV-RIN
40 DTV-LIN
41 TV-RIN
42 TV-LIN
43 ATV-RIN
44 ATV-LIN
45 MAIN-RIN
46 MAIN-LIN
47 GND
48 AGC MON
49 QSS
50 AM
COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL

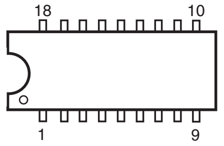
~ J3 Board Schematic Diagram [AV Scart I/O Switching and Sockets] Page 2/2 ~

5-4. SEMICONDUCTORS

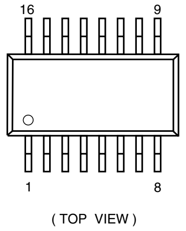
BA033T
BA05T
BA12T
SE-012N-LF4



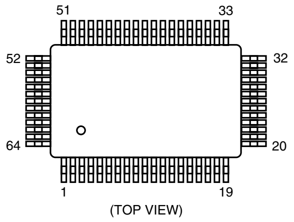
CXAB070AP
MCZ3001D



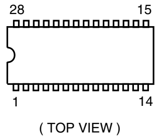
CXA1875AM-T4


16
9
1
8
(TOP VIEW)

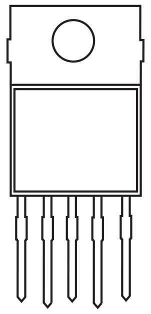
CXA1855Q
CXA2149AQ-TL
CXA2150AQ-TL
CXA2163AQ-T6


51
33
52
32
64
20
1
19
(TOP VIEW)

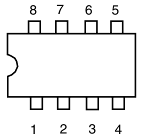
CXD2088Q-TX
CXD2095AQ
CXD2096Q
CXD2309Q-T6
CXD9509AQ
CXD9665Q
CXD2095AQ


28
15
1
14
(TOP VIEW)

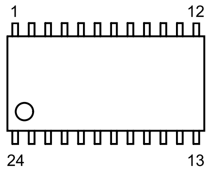
LA6500-FA



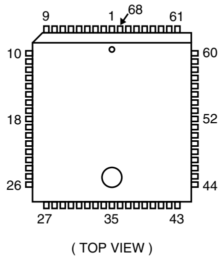
LM318P
LM358D
LM393DT
LM393N
M24C32-WMN6T(A)



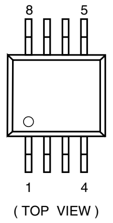
MB88141APF-ER



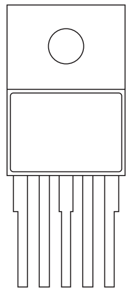
MSP3411G-QA-B10


9
1
68
61
10
60
18
52
26
44
27
35
43
(TOP VIEW)

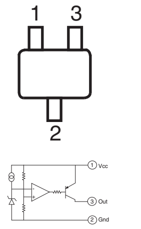
NJM2903M
NJM2904M
NJM3403AM
UPC4558G2


8
5
1
4
(TOP VIEW)

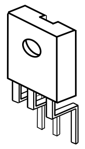
PQ1CG2032FZ



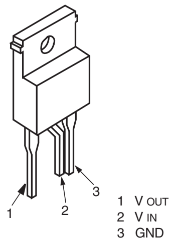
PST573IMT


1
3
2
1 Vcc
3 Out
2 Gnd

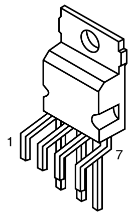
SBX3081-51(30)



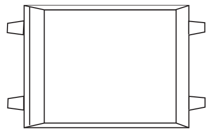
SE-135N
SE135N-LF4


1
2
3
1 V OUT
2 V IN
3 GND

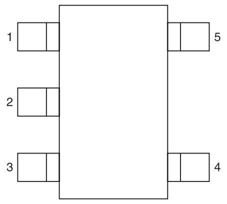
STV9379A



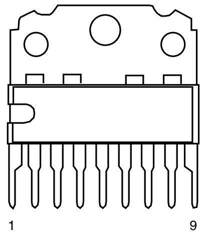
TCET1103G



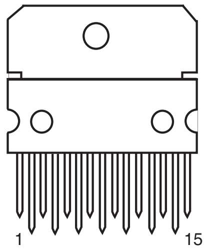
TC7SET04F(TE85R)
TC7SET08F(TE85L)
TC7SET08FU(TE85)



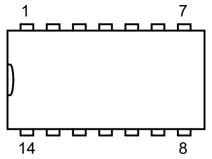
TDA6111Q/N4



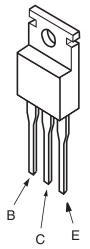
TDA7482



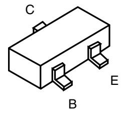
TLC2932IPWR
TLC2933IPWR-12



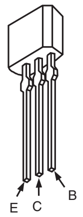
BA12T
BAO33T
IRFI644G-LF36
IRF614-005
IRF720-LF49
IRF620
SPA07N60C2-E8152
2SA1837
2SA2005
2SC5511



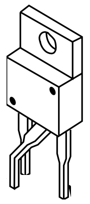
DTA144EKA
DTA144EKA-T146
DTC114EK
DTC114YKA-T146
DTC144EKA
2SA1162-G
2SA1037AK-T146
2SC1623-L5L6
2SC2412K-T-146
2SD601A-Q-TX



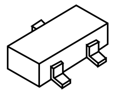
DTA144ESA
2SA933AS-QT
2SC2785-HFE



L7809CV/LSY
STP5NB40FP
STP5NB40(030Y)
2SC5698-CA
2S5696-SONY-CA



MSB709-RT1
MSD601-RST1
M1MA152WA-T1
UN2111
UN213
2SK2036(TE85L)



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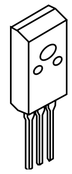
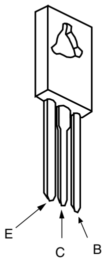
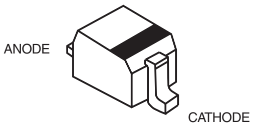


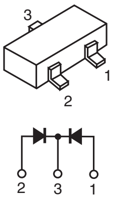
2SC2688(5)-LK



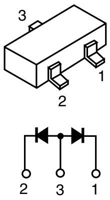
BAS316-115
DTZ-TT11-6.8B
MMDL914T1
UDZS-TE17-12B
UDZSTE-174.7B
UDZSTE-175.1B
UDZSTE-175.6B
UDZSTE-176.2B
UDZSTE-179.1B
UDZSTE-173.9B
UDZ-TE-17-7.5B


ANODE
CATHODE

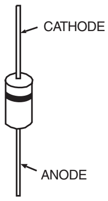
DAN202K



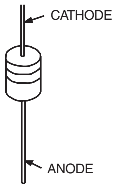
DAP202K



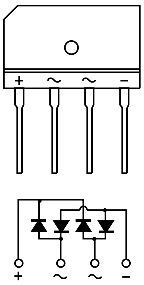
D1NL20U
D1NL20U-TR
D1NL40-TA2
D1NS4
EGP20G
EL1Z
GP08D
RGP10GPKG23
UF4005PKG23


CATHODE
ANODE

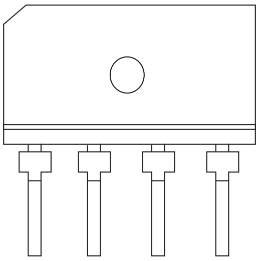
ERA22-08
ERA85-009
HZS9.1NB2
MTZJ-13B
MTZJ-33B
MTZJ-3.6A
MTZJ-30C
MTZJ-7.5B
MTZJ-T-77-15B
MTZJ-T-77-22
MTZJ-T-77-2.2A
RD15ES-B2
RD18ES-B2
RD5.1ESB2
RD5.6ESB2
RD6.8ESB2
RD8.2ESB3
1SS119-25
1SS133T-77
1SS355TE-17
1SS83


CATHODE
ANODE

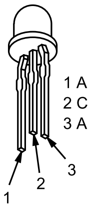
FBIU4D7M1-B
RBA-406B
S1VB40



GS1B460/45

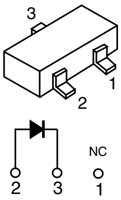


L-59SRSGC-CC

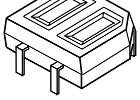


1 ANODE
2 CATHODE
3 ANODE (GRN)

MA3062M-TX
RD5.1M-B2

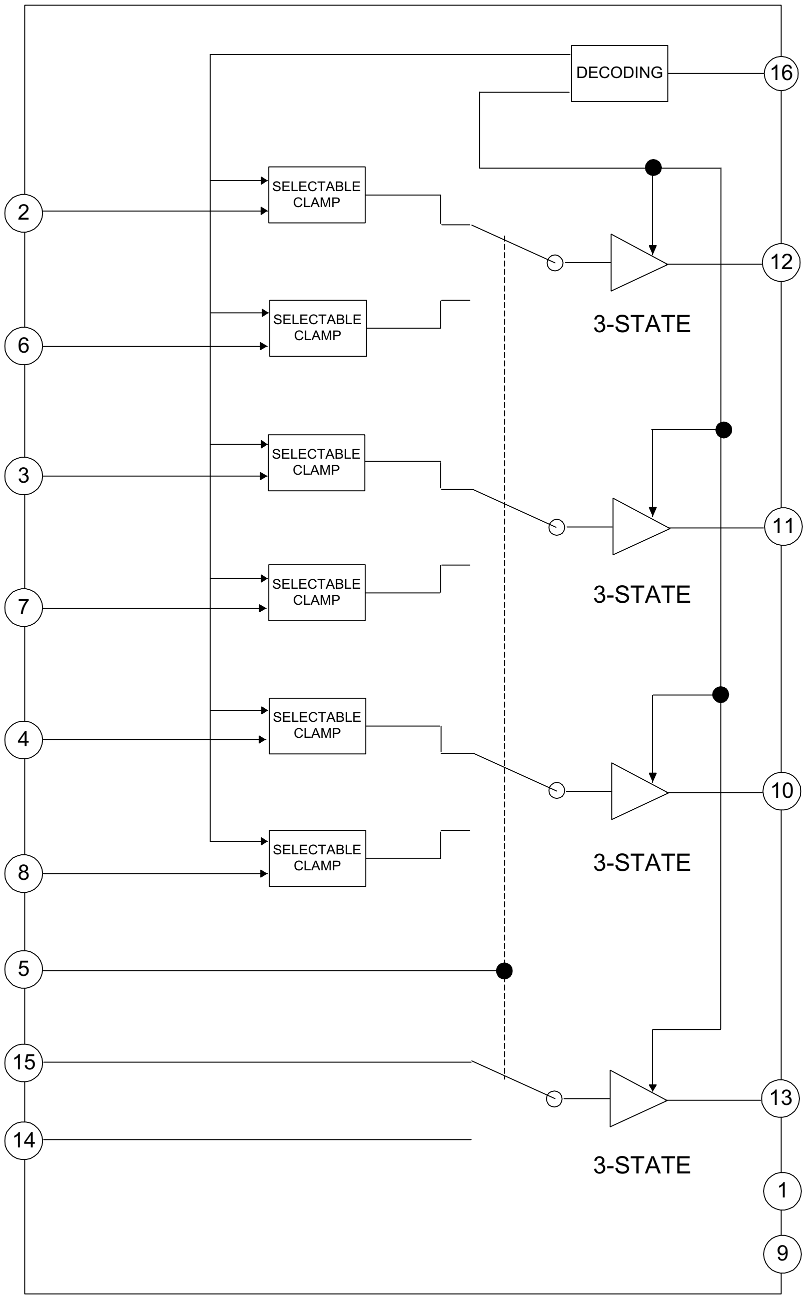


MA73-TX

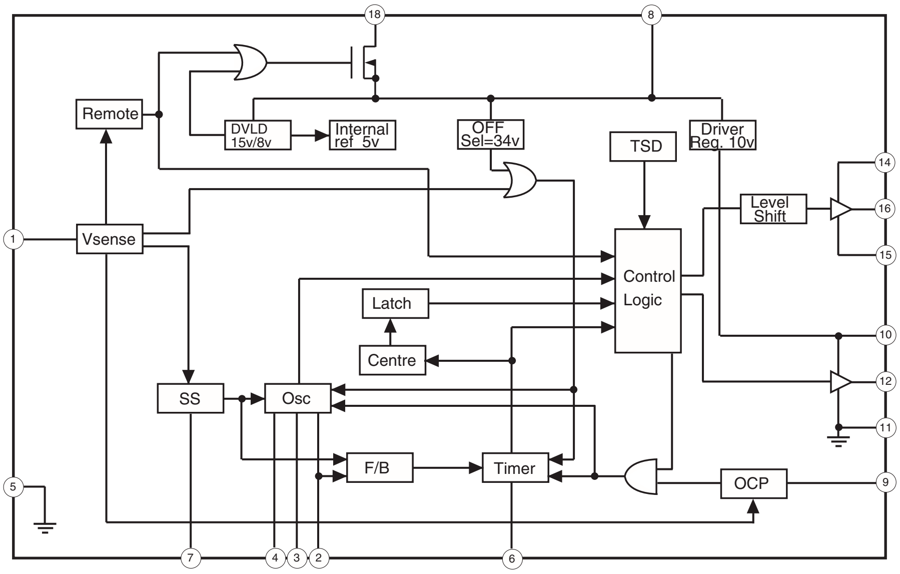


5-5 IC BLOCK DIAGRAMS

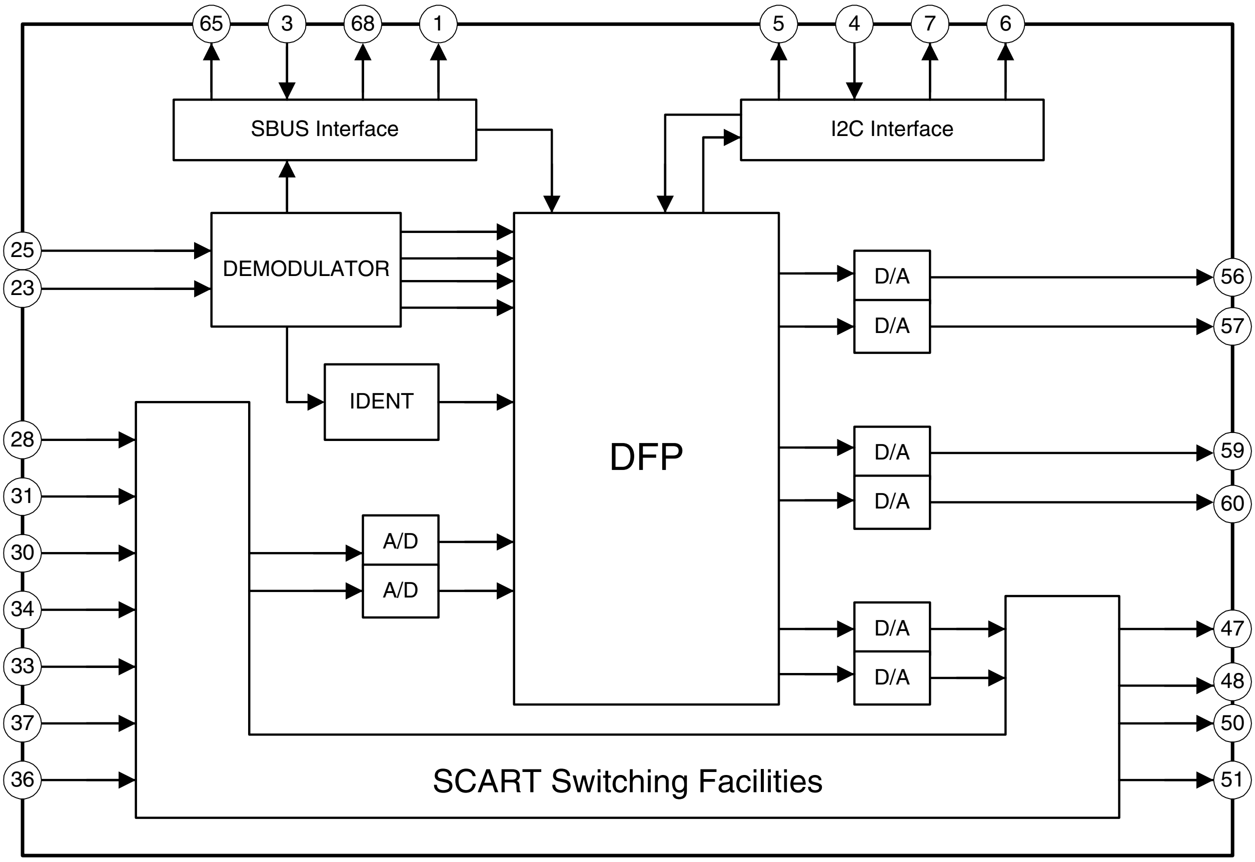
J3 BOARD IC8810 TDA8601T


DECODING
16
SELECTABLE CLAMP
2
12
SELECTABLE CLAMP
6
3-STATE
SELECTABLE CLAMP
3
11
SELECTABLE CLAMP
7
3-STATE
SELECTABLE CLAMP
4
10
SELECTABLE CLAMP
8
3-STATE
5
15
13
14
3-STATE
1
9

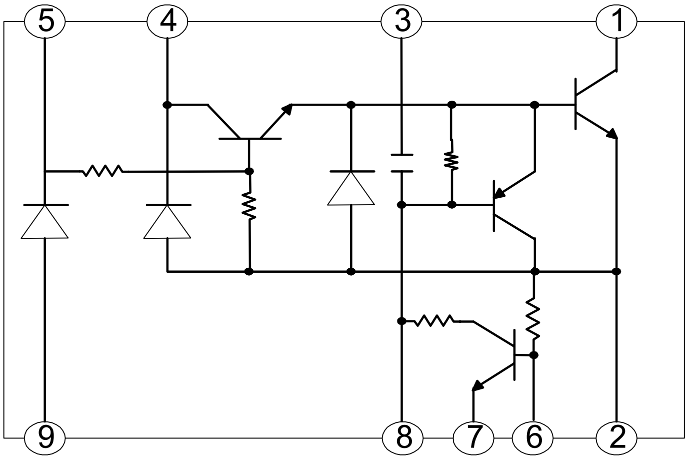
G BOARD IC6001 MCZ3001D
D2 BOARD IC6800 MCZ3001D


18
8
Remote
DVLD 15v/8v
Internal ref 5v
OFF Sel=34v
TSD
Driver Reg. 10v
14
Level Shift
16
15
1
Vsense
Control Logic
Latch
Centre
10
SS
Osc
12
11
F/B
Timer
OCP
9
5
7
4
3
2
6

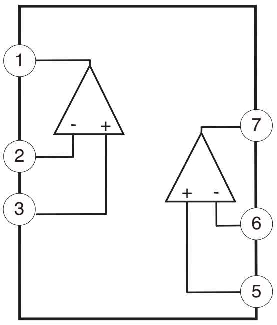
A BOARD IC1231 MSP3411G


65
3
68
1
5
4
7
6
SBUS Interface
I2C Interface
DEMODULATOR
IDENT
DFP
A/D
A/D
D/A
D/A
D/A
D/A
D/A
D/A
SCART Switching Facilities
25
23
28
31
30
34
33
37
36
56
57
59
60
47
48
50
51

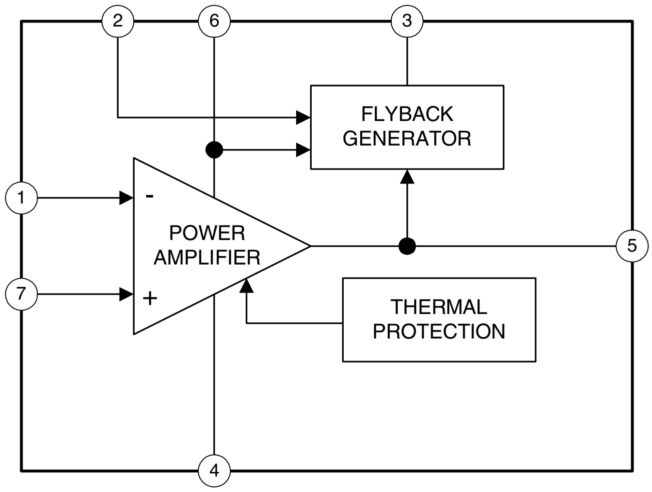
G BOARD IC6003 SE135N-LF4



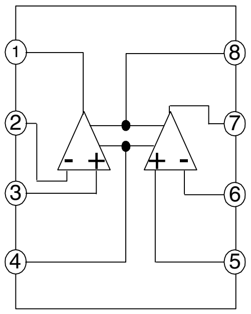
A BOARD IC1801/IC1804/IC1808 LM393DT



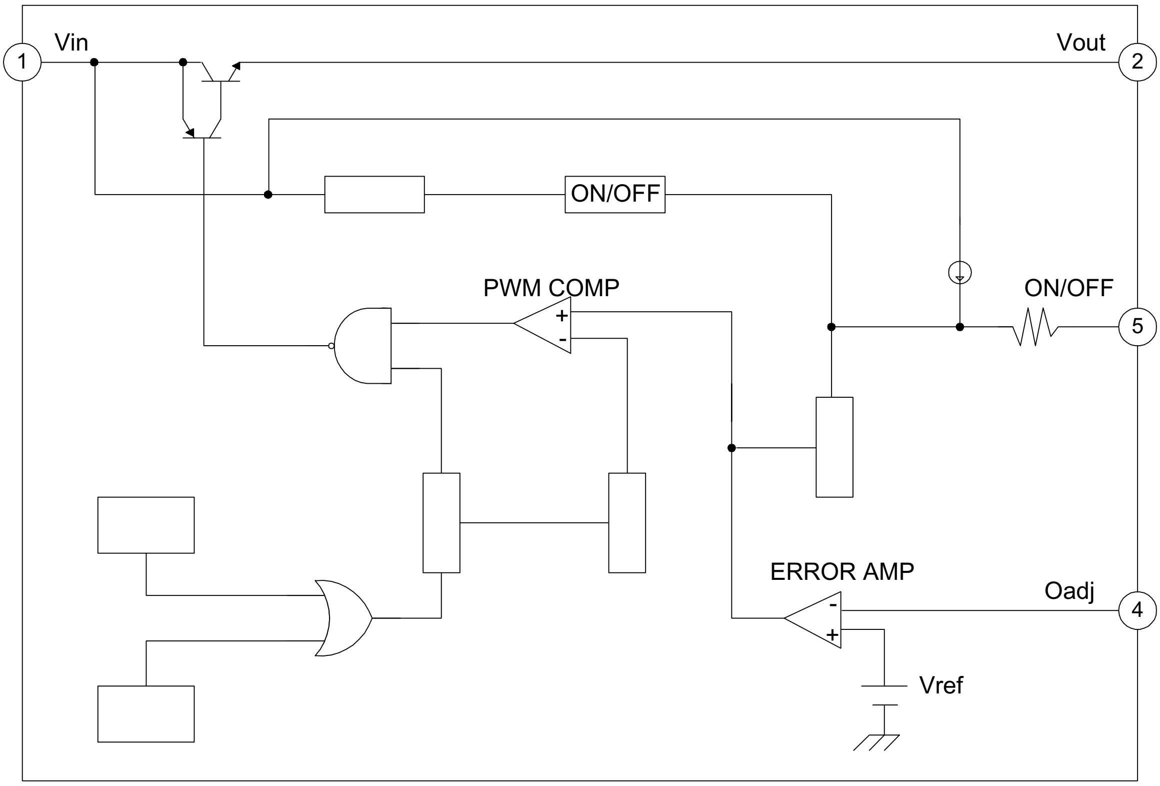
A BOARD IC1701 STV9379


2
6
3
FLYBACK GENERATOR
1
7
-
+
POWER AMPLIFIER
5
THERMAL PROTECTION
4

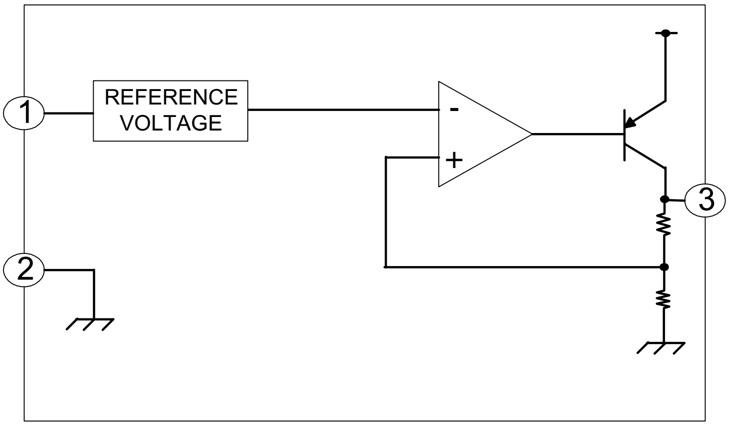
A BOARD IC1802 LM358



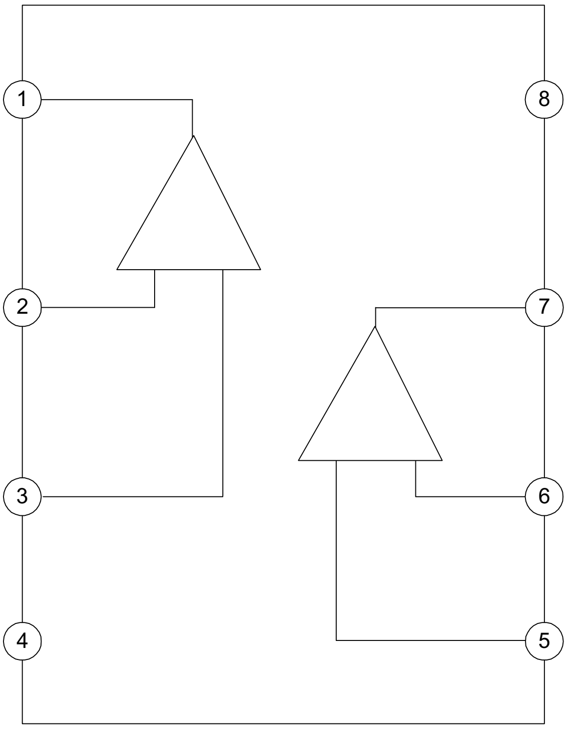
A BOARD IC1002/IC1003/IC1006/IC1007/IC1010 PQ1CG2032FZ


Vin
1
Vout
2
ON/OFF
PWM COMP
+
-
ON/OFF
5
ERROR AMP
Oadj
4
-
+
Vref

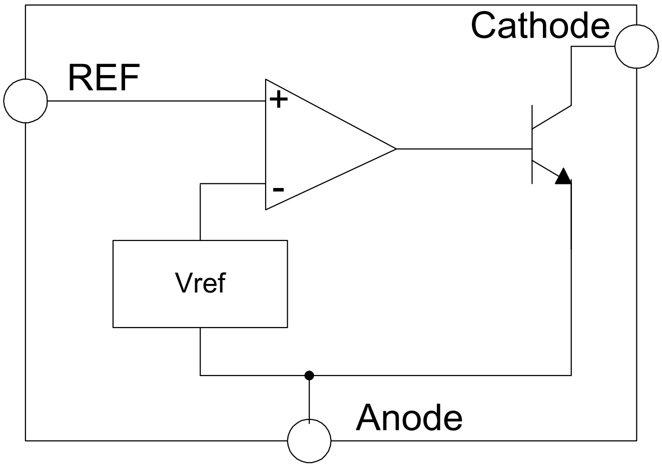
A BOARD IC1012/IC1812 BA033T/BA12T


1
REFERENCE
VOLTAGE
-
+
3
2

D2 BOARD IC6801/IC6802 NJM2903/NJM2904



D2 BOARD IC6803/IC6807 TLV431


Cathode
REF
+
-
Vref
Anode

SECTION 6
EXPLODED VIEWS

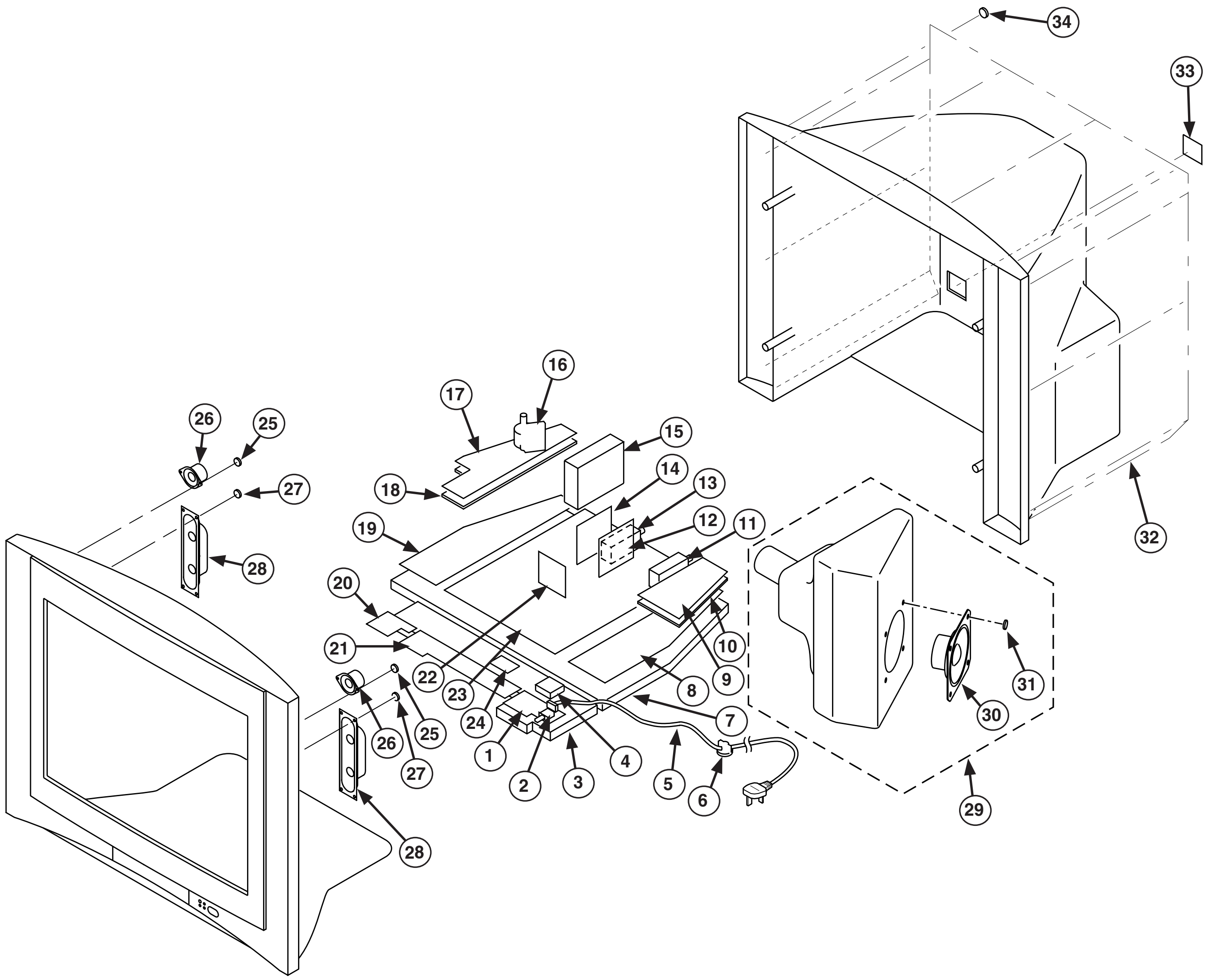
Note : Les composants indentifies par une trame et par une marque ⚠ sonte d'une importance critique pour la securite. Ne les remplacer que par des pieces du numero specifie.

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

NOTE :

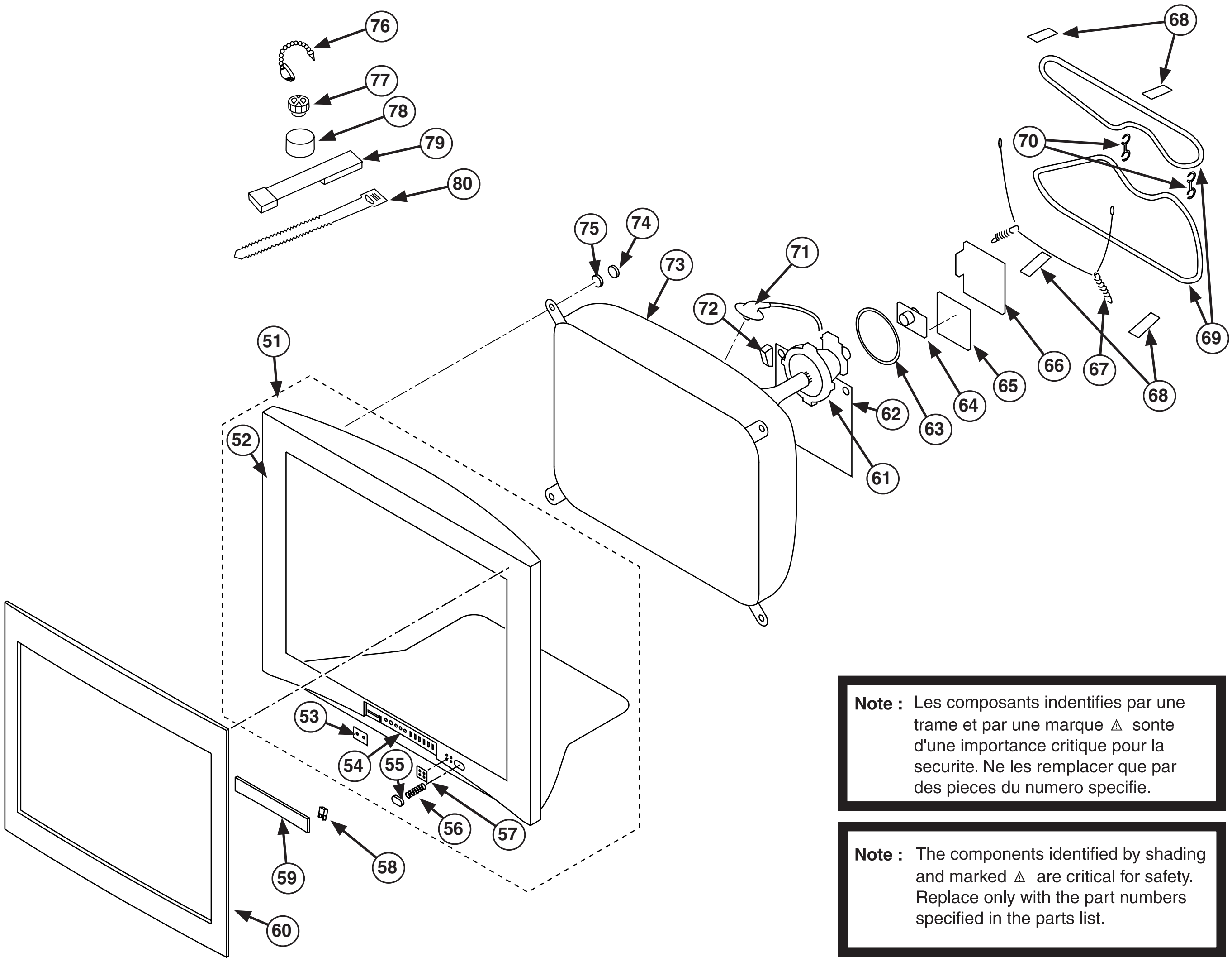
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

6-1. CHASSIS



REF.NO.	PART.NO	DESCRIPTION	REMARK
1	*A-1401-339-A	F3 BOARD, COMPLETE	
2 ⚠	1-571-433-21	SWITCH, PUSH (AC POWER)	
3	*4-087-550-01	BRACKET H	
4	1-424-855-11	COIL, CHOKE 29MMH	
5 ⚠	1-792-592-11	CORD, PLUG WITH POWER	
6	*4-202-531-01	AC CORD LOCK (SC)	
7	*4-206-106-41	BRACKET, (MAIN)	
8	*A-1300-704-A	G BOARD, COMPLETE	
9	*A-1636-052-A	G1 BOARD, COMPLETE	
10	*4-206-383-02	BRACKET, G1	
11	8-598-529-10	FRONTEND BTF-EU611	
12	*A-1401-380-A	J3 BOARD, COMPLETE	
13	8-598-585-00	FRONT END BTD-DU604	
14	*A-1300-686-A	B5 BOARD, COMPLETE	
15	X-4200-759-4	SHIELD N ASSY	
16 ⚠	1-453-444-21	TRANSFORMER ASSY, FLYBACK (NX-6020//Z2B4)	
17	*A-1300-282-A	D2 BOARD, COMPLETE	
18	*4-087-469-11	BRACKET, D2	
19	*A-1300-281-A	D1 BOARD, COMPLETE	
20	*A-1304-241-A	MS2 BOARD, COMPLETE	
21	*A-1400-475-A	H3 BOARD, COMPLETE	
22	*A-1401-432-A	M2 BOARD, COMPLETE	
23	*A-1401-417-A	A BOARD, COMPLETE	
24	*A-1401-265-A	H BOARD, COMPLETE	
25	7-685-633-79	SCREW, +BVTP 3X12 TYPE 2 IT-3	
26	1-542-437-11	SPEAKER (2CM)	
27	6-785-663-71	SCREW, +BVTP 4X16 TYPE 2 IT-3	
28	1-825-177-11	LOUDSPEAKER (4.2X24CM)	
29	A-1601-904-A	WOOFER COMPLETE ASSY	30-31
30	1-825-213-11	LOUDSPEAKER (10CM)	
31	7-685-661-14	SCREW + BVTP 4X12 TYPE 2 IT-3	
32	*4-087-587-11	REAR COVER	
33	4-206-493-01	PCMCIA COVER	
34	4-039-358-01	SCREW (4X16) (+)BV TAPPING	

6-2. PICTURE TUBE



Note : Les composants indentifies par une trame et par une marque ⚠ sonte d'une importance critique pour la securite. Ne les remplacer que par des pieces du numero specifie.

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

REF.NO.		PART.NO	DESCRIPTION	REMARK
51		X-4039-981-2	CABINET ASSY	52-57
52		4-087-586-01	CABINET	
53		4-087-528-01	M/S GUIDE LIGHT	
54		4-087-533-01	MULTI BUTTON	
55		4-087-527-01	POWER BUTTON	
56		4-204-426-01	SPRING	
57		4-087-530-01	GUIDE, LIGHT	
58		4-083-848-02	DAMPER, DOOR	
59		4-087-552-11	DOOR	
60		X-4039-980-2	BEZEL ASSY	
61	⚠	1-451-480-11	DEFLECTION YOKE (Y32RVC2)	
62		4-089-825-01	DY SHIELD	
63		1-452-896-11	COIL, NA ROTATION (RT200)	
64	⚠	8-453-011-11	NECK ASSY, (NA299-M)	
65		*A-1401-267-A	VM BOARD, COMPLETE	
66		*A-1401-264-A	C1 BOARD, COMPLETE	
67		4-369-318-21	SPRING, TENSION	
68		*4-203-390-41	CUSHION, DGC	
69	⚠	1-424-888-11	DEGAUSSING COIL	
70		4-089-227-01	DGC CLIP	
71	⚠	1-251-946-11	CAP ASSY, HIGH-VOLTAGE	
72		4-203-658-01	SPACER, DY	
73	⚠	8-735-079-05	PICTURE TUBE (W76LLZ060X)	
74		4-080-811-01	SCREW, TAPPING 7+CROWN WASHER	
75		4-083-843-01	ACTIVE SPACER, CRT	
76		4-308-870-00	CLIP, LEAD WIRE	
77		1-452-094-00	MAGNET, ROTATABLE DISK; 15MM	
78		1-452-032-00	MAGNET, DISK; 10MM	
79		X-4387-214-1	PERMALLOY ASSY, CORRECTION	
80		3-701-007-00	BAND, BINDING	

SECTION 7
ELECTRICAL PARTS LIST

PARTS LISTING TABLE OF CONTENTS

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MS2 BOARD COMPLETE Parts List : 95
H3 BOARD COMPLETE Parts List : 96
C1 BOARD COMPLETE Parts List : 96
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F3 BOARD COMPLETE Parts List : 98
J3 BOARD COMPLETE Parts List : 99
A BOARD COMPLETE Parts List : 104
M2 BOARD COMPLETE Parts List : 113
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G1 BOARD COMPLETE Parts List : 117
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Note : Refer to the designated variant parts list when seeking a part indicated by an asterisk (*)
Parts indicated (XX) on the Schematic Diagram are not used in this model and
therefore do not appear in the Parts List.

* A-1300-281-A DI Board, Complete

REF.NO.	PART.NO	DESCRIPTION	REMARK
	4-382-854-01	SCREW (M3X8), P, SW (+)	

< CAPACITOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
C8100	1-126-960-11	ELECT 1UF	20.00% 50V
C8101	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V
C8102	1-102-030-00	CERAMIC 330PF	10.00% 500V
C8104	1-106-383-00	MYLAR 0.047UF	10.00% 200V
C8105	1-126-960-11	ELECT 1UF	20.00% 50V
C8106	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V
C8107	1-102-030-00	CERAMIC 330PF	10.00% 500V
C8109	1-106-383-00	MYLAR 0.047UF	10.00% 200V
C8110	1-162-131-11	CERAMIC 220PF	10.00% 2KV
C8111	1-162-134-11	CERAMIC 470PF	10.00% 2KV
C8112	1-117-836-31	FILM 6800PF	3.00% 1.5KV
C8113	1-117-835-11	FILM 6200PF	3.00% 1.5KV
C8114	1-125-893-11	FILM 680PF	3.00% 1.5KV
C8115	1-125-893-11	FILM 680PF	3.00% 1.5KV
C8116	1-127-681-11	FILM 10000PF	2% 100V
C8117	1-115-519-11	FILM 0.56UF	5.00% 250V
C8118	1-107-846-11	FILM 0.1UF	5.00% 400V
C8119	1-117-662-31	FILM 0.18UF	5% 250V
C8120	1-117-662-31	FILM 0.18UF	5% 250V
C8121	1-107-846-11	FILM 0.1UF	5.00% 400V
C8122	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C8200	1-123-024-21	ELECT 33UF	160V
C8201	1-107-656-11	ELECT 100UF	20.00% 250V
C8202	1-102-228-00	CERAMIC 470PF	10.00% 500V
C8203	1-102-228-00	CERAMIC 470PF	10.00% 500V
C8204	1-102-228-00	CERAMIC 470PF	10.00% 500V
C8205	1-126-941-11	ELECT 470UF	20.00% 25V
C8206	1-126-941-11	ELECT 470UF	20.00% 25V
C8304	1-104-666-11	ELECT 220UF	20.00% 25V
C8305	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8313	1-115-416-11	CERAMIC CHIP 0.001UF	5.00% 25V
C8314	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C8501	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C8502	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C8503	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C8504	1-162-966-11	CERAMIC CHIP 0.0022UF	10.00% 50V
C8506	1-126-947-11	ELECT 47UF	20.00% 35V
C8507	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V
C8802	1-164-315-11	CERAMIC CHIP 470PF	5.00% 50V
C8803	1-164-315-11	CERAMIC CHIP 470PF	5.00% 50V
C8804	1-115-416-11	CERAMIC CHIP 0.001UF	5.00% 25V
C8809	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C8810	1-126-947-11	ELECT 47UF	20.00% 35V
C8811	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C8812	1-126-960-11	ELECT 1UF	20.00% 50V
C8817	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C8820	1-164-227-11	CERAMIC CHIP 0.022UF	10.00% 25V
C8821	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C8822	1-136-479-11	FILM 0.001UF	5.00% 100V
C8823	1-162-964-11	CERAMIC CHIP 0.001UF	5.00% 50V
C8824	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C8825	1-126-960-11	ELECT 1UF	20.00% 50V

< CONNECTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
CN8500	1-764-333-11	PIN, CONNECTOR(PCB)(V TYPE)10P	
CN8601	*1-564-506-11	PLUG, CONNECTOR 3P	
CN8611	*1-785-270-12	PIN, DY CONNECTOR (PC BOARD)	
CN8612	*1-564-511-11	PLUG, CONNECTOR 8P	
CN8614	*1-564-508-11	PLUG, CONNECTOR 5P	
CN8615	*1-564-509-11	PLUG, CONNECTOR 6P	
CN8616	*1-564-510-11	PLUG, CONNECTOR 7P	

< DIODE >

REF.NO.	PART.NO	DESCRIPTION	REMARK
D8100	8-719-991-33	DIODE 1SS133T-77	
D8101	8-719-110-41	DIODE RD15ESB2	
D8102	8-719-110-41	DIODE RD15ESB2	
D8201	8-719-302-43	DIODE EL1Z	
D8202	8-719-302-43	DIODE EL1Z	
D8203	8-719-510-73	DIODE S3L20UF4	
D8204	8-719-510-73	DIODE S3L20UF4	
D8309	8-719-988-61	DIODE 1SS355TE-17	
D8311	8-719-988-61	DIODE 1SS355TE-17	
D8312	8-719-988-61	DIODE 1SS355TE-17	
D8313	8-719-988-61	DIODE 1SS355TE-17	
D8802	8-719-988-61	DIODE 1SS355TE-17	
D8804	8-719-988-61	DIODE 1SS355TE-17	
D8805	8-719-988-61	DIODE 1SS355TE-17	

< IC >

REF.NO.	PART.NO	DESCRIPTION	REMARK
IC8501	8-759-998-98	IC LM358D	
IC8801	6-701-847-01	IC UPC1898CT-A	

< COIL >

REF.NO.	PART.NO	DESCRIPTION	REMARK
L8101	1-406-985-11	INDUCTOR 2.2MH	
L8201	1-535-303-00	LEAD, JUMPER (5.0MM)	
L8202	1-535-303-00	LEAD, JUMPER (5.0MM)	
L8203	1-535-303-00	LEAD, JUMPER (5.0MM)	

< TRANSISTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
Q8010	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
Q8011	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8014	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
Q8015	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8100	8-729-048-47	TRANSISTOR 2SC2688(5)-LK	

REF.NO.	PART.NO	DESCRIPTION			REMARK
Q8101	8-729-048-47	TRANSISTOR 2SC2688(5)-LK			
Q8102	8-729-056-16	TRANSISTOR 2SC5698-SONY-CA			
Q8103	8-729-056-17	TRANSISTOR 2SC5696-SONY-CA			
Q8105	8-729-050-48	TRANSISTOR IRF614-005			
Q8106	8-729-047-59	TRANSISTOR STP5NB40FP			
Q8308	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q8501	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q8502	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R			
Q8503	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R			
Q8504	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q8507	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R			
Q8508	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q8701	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R			
Q8801	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q8802	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R			
Q8806	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R			
Q8807	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q8808	1-801-806-11	TR DTC144EKA			
Q8809	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R			
Q8810	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R			
		< RESISTOR >			
R8028	1-249-411-11	CARBON	330	5%	1/4W
R8033	1-249-411-11	CARBON	330	5%	1/4W
R8100	1-215-896-00	METAL OXIDE	4.7K	5%	2W
R8101	1-215-895-11	METAL OXIDE	3.3K	5%	2W
R8102	1-249-419-11	CARBON	1.5K	5%	1/4W
R8103	1-260-340-11	CARBON	10K	5%	1/2W
R8104	1-215-921-11	METAL OXIDE	4.7K	5%	3W
R8105	1-215-921-11	METAL OXIDE	4.7K	5%	3W
R8107	1-249-419-11	CARBON	1.5K	5%	1/4W
R8108	1-260-340-11	CARBON	10K	5%	1/2W
R8109	1-216-365-00	METAL OXIDE	0.47	5%	2W
R8110	1-215-880-00	METAL OXIDE	10	5%	2W
R8111	1-216-361-21	METAL OXIDE	0.22	5%	2W
R8112	1-215-880-00	METAL OXIDE	10	5%	2W
R8115	1-215-493-00	METAL	1M	1%	1/4W
R8116	1-215-485-00	METAL	470K	1%	1/4W
R8117	1-215-493-00	METAL	1M	1%	1/4W
R8118	1-247-807-31	CARBON	100	5%	1/4W
R8119	1-247-807-31	CARBON	100	5%	1/4W
R8120	1-249-425-11	CARBON	4.7K	5%	1/4W
R8121	1-249-425-11	CARBON	4.7K	5%	1/4W
R8201	1-260-123-11	CARBON	100K	5%	1/2W
R8202	1-212-934-00	FUSIBLE	1	5%	1/2W
R8206	1-260-288-11	CARBON	0.47	5%	1/2W
R8207	1-260-288-11	CARBON	0.47	5%	1/2W
R8214	1-216-367-21	METAL OXIDE	0.68	5%	2W
R8227	1-535-143-31	LEAD, JUMPER (15.0MM)			
R8228	1-535-143-31	LEAD, JUMPER (15.0MM)			

REF.NO.	PART.NO	DESCRIPTION			REMARK
R8308	1-216-841-11	METAL CHIP	47K	5%	1/10W
R8309	1-216-841-11	METAL CHIP	47K	5%	1/10W
R8317	1-215-473-00	METAL	150K	1%	1/4W
R8318	1-215-461-00	METAL	47K	1%	1/4W
R8319	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R8320	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8321	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R8327	1-218-883-11	METAL CHIP	33K	0.5%	1/10W
R8331	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R8332	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8333	1-216-845-11	METAL CHIP	100K	5%	1/10W
R8334	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R8335	1-218-863-11	METAL CHIP	4.7K	0.5%	1/10W
R8336	1-215-469-00	METAL	100K	1%	1/4W
R8363	1-218-863-11	METAL CHIP	4.7K	0.5%	1/10W
R8364	1-218-861-11	METAL CHIP	3.9K	0.5%	1/10W
R8501	1-218-895-11	METAL CHIP	100K	0.5%	1/10W
R8503	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R8504	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R8505	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8506	1-216-845-11	METAL CHIP	100K	5%	1/10W
R8508	1-216-864-11	SHORT CHIP	0		
R8509	1-216-864-11	SHORT CHIP	0		
R8510	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8512	1-216-845-11	METAL CHIP	100K	5%	1/10W
R8513	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8517	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8518	1-218-895-11	METAL CHIP	100K	0.5%	1/10W
R8701	1-215-469-00	METAL	100K	1%	1/4W
R8702	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8703	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R8802	1-216-864-11	SHORT CHIP	0		
R8803	1-218-887-11	METAL CHIP	47K	0.5%	1/10W
R8804	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R8805	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8810	1-216-845-11	METAL CHIP	100K	5%	1/10W
R8811	1-216-845-11	METAL CHIP	100K	5%	1/10W
R8812	1-216-864-11	SHORT CHIP	0		
R8822	1-216-845-11	METAL CHIP	100K	5%	1/10W
R8824	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R8829	1-216-809-11	METAL CHIP	100	5%	1/10W
R8831	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R8832	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R8833	1-218-879-11	METAL CHIP	22K	0.5%	1/10W
R8834	1-215-469-00	METAL	100K	1%	1/4W
R8835	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8836	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8837	1-216-837-11	METAL CHIP	22K	5%	1/10W
R8842	1-218-869-11	METAL CHIP	8.2K	0.5%	1/10W
R8843	1-216-815-11	METAL CHIP	330	5%	1/10W

REF.NO.	PART.NO	DESCRIPTION	REMARK
R8844	1-215-469-00	METAL 100K 1%	1/4W
R8845	1-215-469-00	METAL 100K 1%	1/4W
R8848	1-216-845-11	METAL CHIP 100K 5%	1/10W
R8849	1-216-845-11	METAL CHIP 100K 5%	1/10W
R8851	1-216-833-11	METAL CHIP 10K 5%	1/10W
R8853	1-216-857-11	METAL CHIP 1M 5%	1/10W
R8854	1-216-837-11	METAL CHIP 22K 5%	1/10W
R8855	1-216-864-11	SHORT CHIP 0	
R8856	1-216-837-11	METAL CHIP 22K 5%	1/10W
R8857	1-216-841-11	METAL CHIP 47K 5%	1/10W
R8858	1-216-845-11	METAL CHIP 100K 5%	1/10W
R8861	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R8862	1-216-833-11	METAL CHIP 10K 5%	1/10W
R8863	1-216-864-11	SHORT CHIP 0	

< TRANSFORMER >

REF.NO.	PART.NO	DESCRIPTION	REMARK
T8100	1-433-489-31	TRANSFORMER, FERRITE (HDT)	
T8101	1-433-489-31	TRANSFORMER, FERRITE (HDT)	
T8202	1-437-614-11	TRANSFORMER, HORIZONTAL OUTPUT	

* A-1300-282-A D2 Board, Complete

REF.NO.	PART.NO	DESCRIPTION	REMARK
	4-382-854-01	SCREW (M3X8), P, SW (+)	

< CAPACITOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
C6802	1-130-483-00	MYLAR 0.01UF	5.00% 50V
C6803	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V
C6804	1-136-813-11	FILM 680PF	5.00% 100V
C6805	1-126-964-11	ELECT 10UF	20.00% 50V
C6806	1-128-551-11	ELECT 22UF	20.00% 63V
C6807	1-130-495-00	MYLAR 0.1UF	5.00% 50V
C6808	1-126-947-11	ELECT 47UF	20.00% 35V
C6809	1-162-966-11	CERAMIC CHIP 0.0022UF	10.00% 50V
C6810	1-162-115-00	CERAMIC 330PF	10.00% 1KV
C6811	1-162-115-00	CERAMIC 330PF	10.00% 1KV
C6812	1-135-946-21	FILM 47000PF	3.00% 800V
C6813	1-126-967-11	ELECT 47UF	20.00% 50V
C6814	1-126-947-11	ELECT 47UF	20.00% 35V
C6815	1-130-483-00	MYLAR 0.01UF	5.00% 50V
C6816	1-126-964-11	ELECT 10UF	20.00% 50V
C6820	1-130-495-00	MYLAR 0.1UF	5.00% 50V
C6821	1-126-964-11	ELECT 10UF	20.00% 50V
C6822	1-126-966-11	ELECT 33UF	20.00% 50V
C6823	1-126-933-11	ELECT 100UF	20.00% 16V
C6824	1-113-610-11	ELECT(BLOCK) 220UF	20.00% 250V
C6825	1-130-495-00	MYLAR 0.1UF	5.00% 50V
C6826	1-126-969-11	ELECT 220UF	20.00% 50V
C6827	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C6834	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C6835	1-127-715-91	CERAMIC CHIP 0.22UF	10.00% 16V
C6836	1-136-165-00	FILM 0.1UF	5.00% 50V
C6837	1-136-103-00	FILM 0.1UF	5.00% 200V
C6840	1-130-495-00	MYLAR 0.1UF	5.00% 50V
C6842	1-130-471-00	MYLAR 0.001UF	5.00% 50V
C6843	1-135-945-21	FILM 10000PF	3.00% 800V
C6848	1-126-963-11	ELECT 4.7UF	20.00% 50V
C6849	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V
C6850	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C6851	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C6852	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C6853	1-126-933-11	ELECT 100UF	20.00% 16V
C8929	1-107-960-11	ELECT 4.7UF	20.00% 250V
C8930	1-129-898-00	FILM 0.0022UF	5.00% 630V
C8932	1-136-205-11	MYLAR 0.022UF	5.00% 630V
C8938	1-162-131-11	CERAMIC 220PF	10.00% 2KV
C8939	1-162-129-00	CERAMIC 150PF	10.00% 2KV
C8944	1-137-150-11	FILM 0.01UF	5.00% 100V
C8945	1-126-947-11	ELECT 47UF	20.00% 35V
C8952	1-102-030-00	CERAMIC 330PF	10.00% 500V

< CONNECTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
CN6800	*1-816-979-11	PLUG, CONNECTOR 8P	
CN6801	*1-691-772-11	PLUG (MICRO CONNECTOR) 10P	

< DIODE >

REF.NO.	PART.NO	DESCRIPTION	REMARK
D6800	8-719-052-90	DIODE D1NL40-TA2	
D6801	8-719-110-41	DIODE RD15ESB2	
D6802	8-719-110-41	DIODE RD15ESB2	
D6803	8-719-911-19	DIODE 1SS119-25	
D6804	8-719-081-97	DIODE MMDL914T1	
D6806	8-719-109-85	DIODE RD5.1ESB2	
D6811	8-719-911-19	DIODE 1SS119-25	
D6813	8-719-911-19	DIODE 1SS119-25	
D6814	8-719-982-21	DIODE MTZJ-30C	
D6815	8-719-911-19	DIODE 1SS119-25	
D6816	8-719-110-41	DIODE RD15ESB2	
D6817	8-719-063-73	DIODE D1NL20U-TR	
D6820	8-719-921-63	DIODE MTZJ-7.5B	
D6821	8-719-110-49	DIODE RD18ESB2	
D6822	8-719-063-73	DIODE D1NL20U-TR	
D6823	8-719-911-19	DIODE 1SS119-25	
D6824	8-719-911-19	DIODE 1SS119-25	
D6825	8-719-911-19	DIODE 1SS119-25	
D6828	8-719-911-19	DIODE 1SS119-25	
D8919	8-719-948-45	DIODE ERA22-08	
D8927	8-719-991-33	DIODE 1SS133T-77	

< FERRITE BEAD >

REF.NO.	PART.NO	DESCRIPTION	REMARK
FB6801	1-412-911-11	FERRITE 0UH	

REF.NO.	PART.NO	DESCRIPTION	REMARK
		< IC >	
IC6800	8-759-670-30	IC MCZ3001D	
IC6801	8-759-700-07	IC NJM2903M	
IC6802	8-759-701-01	IC NJM2904M	
IC6803	8-759-462-09	IC TLV431AIDBV	
IC6807	8-759-586-17	IC TL1431CZ-AP	
		< COIL >	
L6802	1-419-658-11	INDUCTOR 107UH	
L8901	1-406-674-11	INDUCTOR 3.3MH	
		< TRANSISTOR >	
Q6801	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
Q6802	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
Q6803	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q6804	8-729-044-42	TRANSISTOR IRFI644G-LF36	
Q6805	8-729-044-42	TRANSISTOR IRFI644G-LF36	
Q6807	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q6808	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q6813	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
Q6814	8-729-900-53	TRANSISTOR DTC114EK	
Q6815	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
Q6816	8-729-900-53	TRANSISTOR DTC114EK	
Q6817	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
Q8909	6-550-012-01	TRANSISTOR STP5NB40(033Y)	
Q8918	1-801-806-11	TR DTC144EKA	
		< RESISTOR >	
R6801	1-216-841-11	METAL CHIP 47K 5%	1/10W
R6802	1-216-849-11	METAL CHIP 220K 5%	1/10W
R6803	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R6805	1-215-481-00	METAL 330K 1%	1/4W
R6806	1-215-481-00	METAL 330K 1%	1/4W
R6807	1-215-481-00	METAL 330K 1%	1/4W
R6808	1-211-981-11	METAL CHIP 33 0.5%	1/10W
R6809	1-218-823-11	METAL CHIP 100 0.5%	1/10W
R6810	1-249-417-11	CARBON 1K 5%	1/4W
R6811	1-202-933-61	FUSIBLE 0.1 10%	1/2W
R6812	1-218-869-11	METAL CHIP 8.2K 0.5%	1/10W
R6813	1-249-393-11	CARBON 10 5%	1/4W
R6814	1-249-393-11	CARBON 10 5%	1/4W
R6815	1-216-833-11	METAL CHIP 10K 5%	1/10W
R6816	1-216-833-11	METAL CHIP 10K 5%	1/10W
R6817	1-243-979-21	METAL OXIDE 0.1 5%	2W
R6818	1-249-389-11	CARBON 4.7 5%	1/4W
R6820	1-216-837-11	METAL CHIP 22K 5%	1/10W
R6821	1-216-837-11	METAL CHIP 22K 5%	1/10W
R6823	1-247-843-11	CARBON 3.3K 5%	1/4W
R6825	1-218-912-11	METAL CHIP 510K 0.5%	1/10W
R6827	1-218-883-11	METAL CHIP 33K 0.5%	1/10W
R6828	1-218-895-11	METAL CHIP 100K 0.5%	1/10W
R6829	1-216-841-11	METAL CHIP 47K 5%	1/10W
R6832	1-216-841-11	METAL CHIP 47K 5%	1/10W
R6834	1-216-841-11	METAL CHIP 47K 5%	1/10W
R6835	1-215-423-00	METAL 1.2K 1%	1/4W
R6836	1-215-441-00	METAL 6.8K 1%	1/4W
R6837	1-215-439-00	METAL 5.6K 1%	1/4W
R6838	1-215-439-00	METAL 5.6K 1%	1/4W
R6839	1-215-439-00	METAL 5.6K 1%	1/4W
R6840	1-215-439-00	METAL 5.6K 1%	1/4W
R6841	1-218-847-11	METAL CHIP 1K 0.5%	1/10W
R6843	1-218-845-11	METAL CHIP 820 0.5%	1/10W
R6844	1-218-875-11	METAL CHIP 15K 0.5%	1/10W
R6845	1-218-855-11	METAL CHIP 2.2K 0.5%	1/10W
R6846	1-218-868-11	METAL CHIP 7.5K 0.5%	1/10W
R6847	1-218-847-11	METAL CHIP 1K 0.5%	1/10W
R6848	1-216-817-11	METAL CHIP 470 5%	1/10W
R6865	1-216-835-11	METAL CHIP 15K 5%	1/10W
R6867	1-216-809-11	METAL CHIP 100 5%	1/10W
R6868	1-216-797-11	METAL CHIP 10 5%	1/10W
R6869	1-216-833-11	METAL CHIP 10K 5%	1/10W
R6870	1-216-849-11	METAL CHIP 220K 5%	1/10W
R6872	1-249-377-11	CARBON 0.47 5%	1/4W
R6873	1-249-431-11	CARBON 15K 5%	1/4W
R6874	1-218-903-11	METAL CHIP 220K 0.5%	1/10W
R6875	1-216-863-11	METAL CHIP 3.3M 5%	1/10W
R6876	1-215-485-00	METAL 470K 1%	1/4W
R6877	1-215-485-00	METAL 470K 1%	1/4W
R6878	1-216-821-11	METAL CHIP 1K 5%	1/10W
R6880	1-219-751-51	METAL 47K 5%	1/2W
R6881	1-219-749-51	METAL 10K 5%	1/2W
R6882	1-216-841-11	METAL CHIP 47K 5%	1/10W
R6883	1-211-985-11	METAL CHIP 47 0.5%	1/10W
R6884	1-218-874-11	METAL CHIP 13K 0.5%	1/10W
R6885	1-216-841-11	METAL CHIP 47K 5%	1/10W
R6887	1-249-411-11	CARBON 330 5%	1/4W
R6895	1-216-809-11	METAL CHIP 100 5%	1/10W
R6896	1-216-839-11	METAL CHIP 33K 5%	1/10W
R6897	1-216-853-11	METAL CHIP 470K 5%	1/10W
R6899	1-216-839-11	METAL CHIP 33K 5%	1/10W
R8949	1-215-922-11	METAL OXIDE 6.8K 5%	3W
R8950	1-215-922-11	METAL OXIDE 6.8K 5%	3W
R8951	1-215-922-11	METAL OXIDE 6.8K 5%	3W
R8952	1-215-922-11	METAL OXIDE 6.8K 5%	3W
R8954	1-260-123-11	CARBON 100K 5%	1/2W
R8955	1-260-123-11	CARBON 100K 5%	1/2W
R8956	1-260-123-11	CARBON 100K 5%	1/2W

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

REF.NO.	PART.NO	DESCRIPTION	REMARK
R8957	1-218-847-11	METAL CHIP 1K 0.5%	1/10W
R8988	1-260-123-11	CARBON 100K 5%	1/2W
R8989	1-249-429-11	CARBON 10K 5%	1/4W
R8990	1-216-845-11	METAL CHIP 100K 5%	1/10W
R8991	1-216-837-11	METAL CHIP 22K 5%	1/10W
R8998	1-215-922-11	METAL OXIDE 6.8K 5%	3W

< RESISTOR VARIABLE >

REF.NO.	PART.NO	DESCRIPTION	REMARK
RV6800	1-241-763-11	RES, ADJ, CERMET 4.7K	

< SPARK GAP >

REF.NO.	PART.NO	DESCRIPTION	REMARK
SG6800	1-517-499-21	GAP, SPARK	

< TRANSFORMER >

REF.NO.	PART.NO	DESCRIPTION	REMARK
T6800	⚠ 1-453-444-21	TRANSFORMER ASSY, FLYBACK (NX-6020//Z2B4)	
T8901	1-437-690-11	TRANSFORMER, FERRITE (DFT)	

* A-1300-686-A B5 Board, Complete

REF.NO.	PART.NO	DESCRIPTION	REMARK
	4-087-203-01	PLASTIC RIVET	
	4-382-854-01	SCREW (M3X8), P, SW (+)	

< CAPACITOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
C3101	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C3102	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C3104	1-126-395-11	ELECT CHIP 22UF	20.00% 16V
C3105	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C3106	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C3107	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C3108	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C3109	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C3110	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C3111	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C3112	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C3113	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C3114	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C3115	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C3116	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C3117	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C3118	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C3119	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C3120	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C3121	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C3122	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C3124	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C3125	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C3126	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C3127	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C3128	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C3129	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C3130	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C3131	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C3132	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C3133	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C3134	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C3135	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C3136	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C3137	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C3139	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C3140	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C3141	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C3142	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C3143	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C3144	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C3148	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C3149	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C3150	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C3151	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C3152	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C3153	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C3154	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C3155	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C3156	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C3157	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C3159	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C3160	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C3161	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C3162	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C3164	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C3165	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C3166	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C3167	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C3168	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C3170	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C3176	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C3230	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C3232	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C3233	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C3234	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C3237	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4201	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4202	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4203	1-126-206-11	ELECT CHIP 100UF	20.00% 6.3V
C4204	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4205	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4206	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4207	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4208	1-124-779-00	ELECT CHIP 10UF	20.00% 16V

REF.NO.	PART.NO	DESCRIPTION	REMARK
C4209	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C4210	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4211	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4212	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4213	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4214	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4215	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4216	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4217	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4218	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4219	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4220	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4221	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4222	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4223	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4224	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4225	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4226	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4227	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4228	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4229	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4230	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4231	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4232	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4233	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4234	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C4235	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C4236	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4237	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C4238	1-126-204-11	ELECT CHIP 47UF	20.00% 16V
C4246	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4340	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4341	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4342	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4343	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4344	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4345	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4346	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4347	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4348	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4349	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4350	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4351	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4352	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4370	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C4371	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C4372	1-126-204-11	ELECT CHIP 47UF	20.00% 16V
C4426	1-126-204-11	ELECT CHIP 47UF	20.00% 16V
C4429	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4430	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4431	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4432	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4433	1-126-206-11	ELECT CHIP 100UF	20.00% 6.3V
C4434	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C4438	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4442	1-126-204-11	ELECT CHIP 47UF	20.00% 16V
C4443	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4444	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4445	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4446	1-126-204-11	ELECT CHIP 47UF	20.00% 16V
C4447	1-126-204-11	ELECT CHIP 47UF	20.00% 16V
C4448	1-126-204-11	ELECT CHIP 47UF	20.00% 16V
C4450	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4451	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4452	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4453	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4454	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4463	1-126-204-11	ELECT CHIP 47UF	20.00% 16V
C4464	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4465	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4466	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4467	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4468	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4469	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4470	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4471	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4472	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4473	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4474	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4475	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4476	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4477	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4478	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4479	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4480	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4481	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4482	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4483	1-126-204-11	ELECT CHIP 47UF	20.00% 16V
C4501	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4502	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C4503	1-162-905-11	CERAMIC CHIP 1PF	0.25PF 50V
C4504	1-162-905-11	CERAMIC CHIP 1PF	0.25PF 50V
C4505	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C4506	1-162-905-11	CERAMIC CHIP 1PF	0.25PF 50V
C4507	1-162-905-11	CERAMIC CHIP 1PF	0.25PF 50V
C4508	1-162-905-11	CERAMIC CHIP 1PF	0.25PF 50V
C4509	1-162-905-11	CERAMIC CHIP 1PF	0.25PF 50V
C4510	1-162-905-11	CERAMIC CHIP 1PF	0.25PF 50V
C4511	1-162-905-11	CERAMIC CHIP 1PF	0.25PF 50V
C4512	1-162-905-11	CERAMIC CHIP 1PF	0.25PF 50V

REF.NO.	PART.NO	DESCRIPTION	REMARK
C4513	1-162-905-11	CERAMIC CHIP 1PF	0.25PF 50V
C4514	1-162-905-11	CERAMIC CHIP 1PF	0.25PF 50V
C4515	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C4516	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C4603	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4604	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4605	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C4606	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4607	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C4608	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4609	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C4610	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C4611	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4612	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4613	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4614	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4615	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4616	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4617	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4618	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4620	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V
C4621	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4622	1-162-916-11	CERAMIC CHIP 12PF	5.00% 50V
C4623	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4624	1-162-916-11	CERAMIC CHIP 12PF	5.00% 50V
C4625	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4626	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4627	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4628	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4629	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4630	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4631	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4632	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4633	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4634	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C4635	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4636	1-126-206-11	ELECT CHIP 100UF	20.00% 6.3V
C4637	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4644	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C4648	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C4649	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C4650	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C4652	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4653	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4700	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C4701	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C4702	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C4909	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C4910	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V

REF.NO.	PART.NO	DESCRIPTION	REMARK
		< CONNECTOR >	
CN4472	*1-816-448-11	CONNECTOR, BOARD TO BOARD 50P	
CN4473	*1-816-550-11	CONNECTOR, BOARD TO BOARD 20P	
CN4474	*1-816-070-21	CONNECTOR, BOARD TO BOARD 60P	
CN4475	*1-794-959-21	PIN, CONNECTOR (PWB, PRINT)20P	
CN4501	*1-794-011-21	PIN, CONNECTOR (WITH PWB) 6P	
		< DIODE >	
D4400	8-719-083-58	DIODE UDZSTE-173.9B	
D4602	8-719-158-02	DIODE RD3.9SB2	
D4603	8-719-914-42	DIODE DA204K	
		< FERRITE BEAD >	
FB4302	1-414-760-21	FERRITE 0UH	
FB4303	1-414-760-21	FERRITE 0UH	
FB4400	1-414-760-21	FERRITE 0UH	
FB4401	1-414-760-21	FERRITE 0UH	
FB4402	1-414-760-21	FERRITE 0UH	
FB4403	1-414-760-21	FERRITE 0UH	
FB4404	1-414-760-21	FERRITE 0UH	
FB4405	1-414-760-21	FERRITE 0UH	
FB4501	1-543-949-22	FERRITE 0UH	
FB4502	1-543-949-22	FERRITE 0UH	
FB4600	1-414-760-21	FERRITE 0UH	
FB4601	1-414-760-21	FERRITE 0UH	
FB4614	1-414-921-11	FERRITE 0UH	
FB4615	1-414-921-11	FERRITE 0UH	
FB4616	1-414-921-11	FERRITE 0UH	
FB4619	1-414-921-11	FERRITE 0UH	
FB4620	1-469-568-21	FERRITE 0UH	
		< FILTER >	
FL3100	1-233-877-11	FILTER, LOW PASS	
FL3101	1-234-177-21	FERRITE 0UH	
FL3102	1-234-177-21	FERRITE 0UH	
FL3103	1-233-877-11	FILTER, LOW PASS	
FL3104	1-234-177-21	FERRITE 0UH	
FL3105	1-233-877-11	FILTER, LOW PASS	
FL3106	1-233-877-11	FILTER, LOW PASS	
FL3107	1-233-877-11	FILTER, LOW PASS	
FL3108	1-233-877-11	FILTER, LOW PASS	
FL3109	1-234-177-21	FERRITE 0UH	
FL3110	1-234-177-21	FERRITE 0UH	
FL4200	1-234-177-21	FERRITE 0UH	
FL4201	1-234-177-21	FERRITE 0UH	
FL4202	1-234-177-21	FERRITE 0UH	
FL4203	1-239-560-11	FILTER, CHIP EMI	
FL4310	1-234-177-21	FERRITE 0UH	
FL4405	1-234-177-21	FERRITE 0UH	

REF.NO.	PART.NO	DESCRIPTION	REMARK
FL4406	1-234-177-21	FERRITE 0UH	
FL4407	1-234-177-21	FERRITE 0UH	
FL4408	1-234-177-21	FERRITE 0UH	
FL4409	1-234-177-21	FERRITE 0UH	
FL4410	1-234-177-21	FERRITE 0UH	
FL4411	1-234-177-21	FERRITE 0UH	
FL4412	1-234-177-21	FERRITE 0UH	
FL4600	1-234-177-21	FERRITE 0UH	
FL4601	1-234-177-21	FERRITE 0UH	
FL4602	1-234-177-21	FERRITE 0UH	
FL4603	1-234-177-21	FERRITE 0UH	
FL4604	1-234-177-21	FERRITE 0UH	
FL4606	1-234-177-21	FERRITE 0UH	
FL4607	1-234-177-21	FERRITE 0UH	
FL4608	1-234-494-21	FILTER, EMI REMOVAL (SMD)	
FL4902	1-234-113-21	FILTER, LOW PASS	
FL4903	1-234-112-21	FILTER, LOW PASS	
FL4904	1-234-112-21	FILTER, LOW PASS	

< IC >

REF.NO.	PART.NO	DESCRIPTION	REMARK
IC3100	8-752-413-28	IC CXD2096Q	
IC4201	6-701-120-01	IC W981616BH-7-EL10	
IC4203	8-752-409-78	IC CXD2095AQ	
IC4304	6-700-797-01	IC CXD9666Q	
IC4401	6-702-070-01	IC CXD9665Q	
IC4402	8-759-640-16	IC TC7SET04F(TE85R)	
IC4403	8-759-640-16	IC TC7SET04F(TE85R)	
IC4404	8-759-669-78	IC TLC2933IPWR-12	
IC4406	8-759-447-77	IC TC7WH74FU(TE12R)	
IC4407	8-759-447-77	IC TC7WH74FU(TE12R)	
IC4501	6-802-162-01	IC XC9536XL-10VQ64C-8U1	
IC4600	8-759-672-57	IC CXD9509AQ	
IC4602	8-759-677-37	IC MT48LC2M32B2TG-7	
IC4603	8-759-639-85	IC SN65LVDS31DR	
IC4604	6-701-762-11	IC DS90LV018ATMX	
IC4605	8-759-698-08	IC SN74CBTLV1G125DCKR	

< COIL >

REF.NO.	PART.NO	DESCRIPTION	REMARK
L3102	1-412-026-11	INDUCTOR 1UH	
L4300	1-469-525-91	INDUCTOR 10UH	
L4301	1-469-525-91	INDUCTOR 10UH	
L4400	1-469-525-91	INDUCTOR 10UH	
L4401	1-469-525-91	INDUCTOR 10UH	
L4402	1-412-026-11	INDUCTOR 1UH	
L4403	1-469-522-91	INDUCTOR 1UH	
L4404	1-469-522-91	INDUCTOR 1UH	
L4405	1-469-522-91	INDUCTOR 1UH	
L4406	1-469-525-91	INDUCTOR 10UH	
L4408	1-469-522-91	INDUCTOR 1UH	
L4409	1-469-522-91	INDUCTOR 1UH	
L4410	1-469-522-91	INDUCTOR 1UH	
L4411	1-469-525-91	INDUCTOR 10UH	
L4412	1-412-026-11	INDUCTOR 1UH	
L4601	1-419-370-21	INDUCTOR 0UH	
L4602	1-419-370-21	INDUCTOR 0UH	
L4603	1-419-370-21	INDUCTOR 0UH	
L4604	1-419-370-21	INDUCTOR 0UH	
L4608	1-419-370-21	INDUCTOR 0UH	

< TRANSISTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
Q3100	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q3102	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q3104	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q3106	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q3107	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q3108	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q3109	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q3110	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q3111	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q3112	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q3113	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q3114	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q3116	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q3117	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q3118	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q3119	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q3120	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q3122	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q3207	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q3208	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q3209	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q4300	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q4301	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q4302	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q4401	8-729-028-28	TRANSISTOR 2SK2036(TE85L)	
Q4402	8-729-028-28	TRANSISTOR 2SK2036(TE85L)	
Q4405	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q4406	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q4407	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q4408	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q4412	1-801-806-11	TR DTC144EKA	
Q4413	1-801-806-11	TR DTC144EKA	
Q4600	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q4903	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q4904	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q4905	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	

< RESISTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
R3100	1-216-864-11	SHORT CHIP 0	
R3101	1-216-864-11	SHORT CHIP 0	
R3102	1-216-813-11	METAL CHIP 220 5% 1/10W	
R3103	1-216-813-11	METAL CHIP 220 5% 1/10W	
R3104	1-216-815-11	METAL CHIP 330 5% 1/10W	
R3105	1-218-843-11	METAL CHIP 680 0.5% 1/10W	
R3106	1-218-847-11	METAL CHIP 1K 0.5% 1/10W	
R3107	1-216-864-11	SHORT CHIP 0	
R3108	1-218-843-11	METAL CHIP 680 0.5% 1/10W	
R3109	1-218-847-11	METAL CHIP 1K 0.5% 1/10W	
R3110	1-216-864-11	SHORT CHIP 0	
R3111	1-218-865-11	METAL CHIP 5.6K 0.5% 1/10W	
R3112	1-216-818-11	METAL CHIP 560 5% 1/10W	
R3113	1-216-818-11	METAL CHIP 560 5% 1/10W	
R3114	1-216-864-11	SHORT CHIP 0	
R3115	1-216-864-11	SHORT CHIP 0	
R3119	1-216-815-11	METAL CHIP 330 5% 1/10W	
R3120	1-218-865-11	METAL CHIP 5.6K 0.5% 1/10W	
R3121	1-216-864-11	SHORT CHIP 0	
R3122	1-216-864-11	SHORT CHIP 0	
R3123	1-216-864-11	SHORT CHIP 0	
R3124	1-216-864-11	SHORT CHIP 0	
R3125	1-216-864-11	SHORT CHIP 0	
R3126	1-216-864-11	SHORT CHIP 0	
R3127	1-216-864-11	SHORT CHIP 0	
R3128	1-216-818-11	METAL CHIP 560 5% 1/10W	
R3129	1-216-864-11	SHORT CHIP 0	
R3130	1-216-818-11	METAL CHIP 560 5% 1/10W	
R3131	1-216-809-11	METAL CHIP 100 5% 1/10W	
R3132	1-216-815-11	METAL CHIP 330 5% 1/10W	
R3133	1-218-865-11	METAL CHIP 5.6K 0.5% 1/10W	
R3134	1-216-818-11	METAL CHIP 560 5% 1/10W	
R3135	1-216-818-11	METAL CHIP 560 5% 1/10W	
R3136	1-216-815-11	METAL CHIP 330 5% 1/10W	
R3137	1-218-865-11	METAL CHIP 5.6K 0.5% 1/10W	
R3138	1-216-813-11	METAL CHIP 220 5% 1/10W	
R3139	1-216-864-11	SHORT CHIP 0	
R3140	1-216-813-11	METAL CHIP 220 5% 1/10W	
R3141	1-216-813-11	METAL CHIP 220 5% 1/10W	
R3142	1-216-818-11	METAL CHIP 560 5% 1/10W	
R3143	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R3144	1-218-835-11	METAL CHIP 330 0.5% 1/10W	
R3145	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R3146	1-218-843-11	METAL CHIP 680 0.5% 1/10W	
R3147	1-218-847-11	METAL CHIP 1K 0.5% 1/10W	
R3148	1-216-864-11	SHORT CHIP 0	
R3149	1-216-818-11	METAL CHIP 560 5% 1/10W	
R3150	1-216-815-11	METAL CHIP 330 5% 1/10W	
R3151	1-216-815-11	METAL CHIP 330 5% 1/10W	
R3152	1-218-865-11	METAL CHIP 5.6K 0.5% 1/10W	
R3153	1-218-865-11	METAL CHIP 5.6K 0.5% 1/10W	
R3154	1-216-818-11	METAL CHIP 560 5% 1/10W	
R3155	1-216-818-11	METAL CHIP 560 5% 1/10W	
R3156	1-216-818-11	METAL CHIP 560 5% 1/10W	
R3157	1-216-818-11	METAL CHIP 560 5% 1/10W	
R3160	1-216-864-11	SHORT CHIP 0	
R3162	1-216-864-11	SHORT CHIP 0	
R3164	1-216-864-11	SHORT CHIP 0	
R3166	1-216-864-11	SHORT CHIP 0	
R3168	1-216-864-11	SHORT CHIP 0	
R3174	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R3175	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R3186	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R3187	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R3192	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R3193	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R3198	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R3199	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R3201	1-216-864-11	SHORT CHIP 0	
R3214	1-216-864-11	SHORT CHIP 0	
R3223	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R3242	1-218-859-11	METAL CHIP 3.3K 0.5% 1/10W	
R3244	1-218-859-11	METAL CHIP 3.3K 0.5% 1/10W	
R3251	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R3253	1-218-859-11	METAL CHIP 3.3K 0.5% 1/10W	
R3255	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R3256	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R3257	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R3258	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R3259	1-216-864-11	SHORT CHIP 0	
R3267	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R3268	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R3269	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R3277	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R3278	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R3285	1-216-801-11	METAL CHIP 22 5% 1/10W	
R3287	1-216-864-11	SHORT CHIP 0	
R3288	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R3289	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R3292	1-216-864-11	SHORT CHIP 0	
R3292	1-216-864-11	SHORT CHIP 0	
R3293	1-216-864-11	SHORT CHIP 0	
R3294	1-216-864-11	SHORT CHIP 0	
R3295	1-216-864-11	SHORT CHIP 0	
R4200	1-216-805-11	METAL CHIP 47 5% 1/10W	
R4201	1-216-801-11	METAL CHIP 22 5% 1/10W	
R4209	1-216-864-11	SHORT CHIP 0	
R4211	1-216-801-11	METAL CHIP 22 5% 1/10W	

REF.NO.	PART.NO	DESCRIPTION	REMARK
R4212	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R4213	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R4214	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R4215	1-216-864-11	SHORT CHIP 0	
R4216	1-216-864-11	SHORT CHIP 0	
R4219	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R4232	1-216-864-11	SHORT CHIP 0	
R4234	1-216-809-11	METAL CHIP 100 5% 1/10W	
R4236	1-216-809-11	METAL CHIP 100 5% 1/10W	
R4237	1-216-809-11	METAL CHIP 100 5% 1/10W	
R4240	1-216-813-11	METAL CHIP 220 5% 1/10W	
R4241	1-218-859-11	METAL CHIP 3.3K 0.5% 1/10W	
R4242	1-216-813-11	METAL CHIP 220 5% 1/10W	
R4243	1-216-813-11	METAL CHIP 220 5% 1/10W	
R4244	1-216-805-11	METAL CHIP 47 5% 1/10W	
R4249	1-216-814-11	METAL CHIP 270 5% 1/10W	
R4250	1-218-842-11	METAL CHIP 620 0.5% 1/10W	
R4255	1-216-805-11	METAL CHIP 47 5% 1/10W	
R4265	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R4267	1-216-864-11	SHORT CHIP 0	
R4268	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R4269	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R4270	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R4271	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R4272	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R4273	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R4277	1-216-864-11	SHORT CHIP 0	
R4310	1-216-801-11	METAL CHIP 22 5% 1/10W	
R4311	1-216-864-11	SHORT CHIP 0	
R4312	1-216-864-11	SHORT CHIP 0	
R4313	1-216-864-11	SHORT CHIP 0	
R4314	1-218-857-11	METAL CHIP 2.7K 0.5% 1/10W	
R4315	1-218-857-11	METAL CHIP 2.7K 0.5% 1/10W	
R4316	1-218-831-11	METAL CHIP 220 0.5% 1/10W	
R4317	1-218-831-11	METAL CHIP 220 0.5% 1/10W	
R4318	1-218-831-11	METAL CHIP 220 0.5% 1/10W	
R4319	1-216-809-11	METAL CHIP 100 5% 1/10W	
R4320	1-216-809-11	METAL CHIP 100 5% 1/10W	
R4321	1-216-809-11	METAL CHIP 100 5% 1/10W	
R4322	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R4323	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R4324	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R4325	1-218-831-11	METAL CHIP 220 0.5% 1/10W	
R4326	1-218-831-11	METAL CHIP 220 0.5% 1/10W	
R4327	1-218-831-11	METAL CHIP 220 0.5% 1/10W	
R4328	1-218-855-11	METAL CHIP 2.2K 0.5% 1/10W	
R4329	1-218-847-11	METAL CHIP 1K 0.5% 1/10W	
R4330	1-216-809-11	METAL CHIP 100 5% 1/10W	
R4331	1-216-809-11	METAL CHIP 100 5% 1/10W	
R4332	1-216-809-11	METAL CHIP 100 5% 1/10W	
R4334	1-216-809-11	METAL CHIP 100 5% 1/10W	
R4335	1-216-809-11	METAL CHIP 100 5% 1/10W	
R4336	1-216-809-11	METAL CHIP 100 5% 1/10W	
R4337	1-216-809-11	METAL CHIP 100 5% 1/10W	
R4338	1-216-807-11	METAL CHIP 68 5% 1/10W	
R4423	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R4424	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R4425	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R4427	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R4429	1-216-864-11	SHORT CHIP 0	
R4430	1-216-864-11	SHORT CHIP 0	
R4434	1-216-864-11	SHORT CHIP 0	
R4435	1-216-864-11	SHORT CHIP 0	
R4436	1-216-864-11	SHORT CHIP 0	
R4439	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R4441	1-216-864-11	SHORT CHIP 0	
R4442	1-216-853-11	METAL CHIP 470K 5% 1/10W	
R4443	1-216-837-11	METAL CHIP 22K 5% 1/10W	
R4444	1-216-813-11	METAL CHIP 220 5% 1/10W	
R4445	1-216-815-11	METAL CHIP 330 5% 1/10W	
R4446	1-216-813-11	METAL CHIP 220 5% 1/10W	
R4447	1-216-809-11	METAL CHIP 100 5% 1/10W	
R4448	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R4449	1-216-827-11	METAL CHIP 3.3K 5% 1/10W	
R4451	1-216-827-11	METAL CHIP 3.3K 5% 1/10W	
R4453	1-216-853-11	METAL CHIP 470K 5% 1/10W	
R4456	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R4457	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R4458	1-216-815-11	METAL CHIP 330 5% 1/10W	
R4459	1-216-815-11	METAL CHIP 330 5% 1/10W	
R4461	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R4462	1-216-809-11	METAL CHIP 100 5% 1/10W	
R4463	1-216-809-11	METAL CHIP 100 5% 1/10W	
R4465	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R4466	1-216-809-11	METAL CHIP 100 5% 1/10W	
R4467	1-216-809-11	METAL CHIP 100 5% 1/10W	
R4468	1-216-809-11	METAL CHIP 100 5% 1/10W	
R4472	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R4476	1-216-809-11	METAL CHIP 100 5% 1/10W	
R4477	1-216-809-11	METAL CHIP 100 5% 1/10W	
R4478	1-216-809-11	METAL CHIP 100 5% 1/10W	
R4479	1-216-864-11	SHORT CHIP 0	
R4481	1-216-805-11	METAL CHIP 47 5% 1/10W	
R4482	1-216-809-11	METAL CHIP 100 5% 1/10W	
R4484	1-216-809-11	METAL CHIP 100 5% 1/10W	
R4485	1-216-809-11	METAL CHIP 100 5% 1/10W	
R4486	1-216-864-11	SHORT CHIP 0	
R4487	1-216-864-11	SHORT CHIP 0	
R4489	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R4490	1-216-864-11	SHORT CHIP 0	

REF.NO.	PART.NO	DESCRIPTION				REMARK
R4491	1-216-864-11	SHORT CHIP	0			
R4492	1-216-864-11	SHORT CHIP	0			
R4495	1-216-864-11	SHORT CHIP	0			
R4498	1-216-864-11	SHORT CHIP	0			
R4499	1-216-864-11	SHORT CHIP	0			
R4500	1-216-864-11	SHORT CHIP	0			
R4501	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R4541	1-216-864-11	SHORT CHIP	0			
R4542	1-216-864-11	SHORT CHIP	0			
R4543	1-216-864-11	SHORT CHIP	0			
R4544	1-216-864-11	SHORT CHIP	0			
R4545	1-216-864-11	SHORT CHIP	0			
R4546	1-216-864-11	SHORT CHIP	0			
R4547	1-216-805-11	METAL CHIP	47	5%	1/10W	
R4548	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R4549	1-216-805-11	METAL CHIP	47	5%	1/10W	
R4550	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R4551	1-216-805-11	METAL CHIP	47	5%	1/10W	
R4553	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R4555	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R4556	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R4558	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R4559	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R4561	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R4562	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R4564	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R4565	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R4567	1-216-809-11	METAL CHIP	100	5%	1/10W	
R4570	1-216-864-11	SHORT CHIP	0			
R4571	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R4572	1-216-805-11	METAL CHIP	47	5%	1/10W	
R4573	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R4574	1-216-805-11	METAL CHIP	47	5%	1/10W	
R4575	1-216-864-11	SHORT CHIP	0			
R4576	1-211-985-11	METAL CHIP	47	0.5%	1/10W	
R4577	1-211-985-11	METAL CHIP	47	0.5%	1/10W	
R4578	1-211-985-11	METAL CHIP	47	0.5%	1/10W	
R4579	1-216-864-11	SHORT CHIP	0			
R4580	1-216-864-11	SHORT CHIP	0			
R4581	1-216-864-11	SHORT CHIP	0			
R4582	1-216-864-11	SHORT CHIP	0			
R4583	1-216-864-11	SHORT CHIP	0			
R4600	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	
R4601	1-216-864-11	SHORT CHIP	0			
R4602	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R4603	1-216-864-11	SHORT CHIP	0			
R4607	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R4608	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R4609	1-216-864-11	SHORT CHIP	0			
R4610	1-216-864-11	SHORT CHIP	0			

REF.NO.	PART.NO	DESCRIPTION				REMARK
R4611	1-216-864-11	SHORT CHIP	0			
R4612	1-216-864-11	SHORT CHIP	0			
R4613	1-216-864-11	SHORT CHIP	0			
R4626	1-216-801-11	METAL CHIP	22	5%	1/10W	
R4628	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R4629	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R4630	1-218-833-11	METAL CHIP	270	0.5%	1/10W	
R4632	1-216-864-11	SHORT CHIP	0			
R4633	1-216-864-11	SHORT CHIP	0			
R4634	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R4635	1-216-864-11	SHORT CHIP	0			
R4636	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R4637	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R4638	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R4646	1-216-809-11	METAL CHIP	100	5%	1/10W	
R4686	1-216-801-11	METAL CHIP	22	5%	1/10W	
R4687	1-216-801-11	METAL CHIP	22	5%	1/10W	
R4689	1-216-801-11	METAL CHIP	22	5%	1/10W	
R4698	1-216-805-11	METAL CHIP	47	5%	1/10W	
R4701	1-218-825-11	METAL CHIP	120	0.5%	1/10W	
R4702	1-211-989-11	METAL CHIP	68	0.5%	1/10W	
R4703	1-211-969-11	METAL CHIP	10	0.5%	1/10W	
R4704	1-218-825-11	METAL CHIP	120	0.5%	1/10W	
R4705	1-211-990-11	METAL CHIP	75	0.5%	1/10W	
R4706	1-211-977-11	METAL CHIP	22	0.5%	1/10W	
R4707	1-218-825-11	METAL CHIP	120	0.5%	1/10W	
R4708	1-218-823-11	METAL CHIP	100	0.5%	1/10W	
R4709	1-211-973-11	METAL CHIP	15	0.5%	1/10W	
R4710	1-218-825-11	METAL CHIP	120	0.5%	1/10W	
R4711	1-211-990-11	METAL CHIP	75	0.5%	1/10W	
R4712	1-211-977-11	METAL CHIP	22	0.5%	1/10W	
R4811	1-216-864-11	SHORT CHIP	0			
R4812	1-216-864-11	SHORT CHIP	0			
R4813	1-216-864-11	SHORT CHIP	0			
R4816	1-216-864-11	SHORT CHIP	0			
R4912	1-218-855-11	METAL CHIP	2.2K	0.5%	1/10W	
R4913	1-218-855-11	METAL CHIP	2.2K	0.5%	1/10W	
R4914	1-218-855-11	METAL CHIP	2.2K	0.5%	1/10W	
R4915	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R4916	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R4917	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R4918	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R4919	1-216-833-11	METAL CHIP	10K	5%	1/10W	

< RESISTOR CHIP >

RB4200	1-239-409-11	NETWORK RESISTOR (CHIP)	47
RB4201	1-239-409-11	NETWORK RESISTOR (CHIP)	47
RB4202	1-239-409-11	NETWORK RESISTOR (CHIP)	47
RB4203	1-239-409-11	NETWORK RESISTOR (CHIP)	47
RB4204	1-239-409-11	NETWORK RESISTOR (CHIP)	47

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

REF.NO.	PART.NO	DESCRIPTION	REMARK
RB4205	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB4206	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB4207	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB4208	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB4209	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB4210	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB4211	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB4212	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB4213	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB4214	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB4310	1-233-813-11	RES, NETWORK 150	(3216)
RB4311	1-233-813-11	RES, NETWORK 150	(3216)
RB4312	1-233-813-11	RES, NETWORK 150	(3216)
RB4313	1-233-813-11	RES, NETWORK 150	(3216)
RB4314	1-233-813-11	RES, NETWORK 150	(3216)
RB4315	1-233-813-11	RES, NETWORK 150	(3216)
RB4414	1-234-523-21	RES, CHIP NETWORK 0	(3216)
RB4415	1-234-523-21	RES, CHIP NETWORK 0	(3216)
RB4501	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB4502	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB4503	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB4504	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB4600	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB4601	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB4602	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB4603	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB4604	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB4605	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB4612	1-233-576-11	RES, CHIP NETWORK 100	
RB4613	1-233-576-11	RES, CHIP NETWORK 100	
RB4616	1-233-576-11	RES, CHIP NETWORK 100	
RB4617	1-233-576-11	RES, CHIP NETWORK 100	
RB4618	1-233-576-11	RES, CHIP NETWORK 100	
RB4619	1-233-576-11	RES, CHIP NETWORK 100	
RB4622	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB4623	1-233-576-11	RES, CHIP NETWORK 100	
RB4624	1-233-576-11	RES, CHIP NETWORK 100	

< CRYSTAL >

REF.NO.	PART.NO	DESCRIPTION	REMARK
X3100	1-781-723-21	OSCILLATOR, CRYSTAL	
X4601	1-795-112-21	VIBRATOR, CRYSTAL	

* A-1300-704-A G Board, Complete

REF.NO.	PART.NO	DESCRIPTION	REMARK
	*4-042-408-01	PIN, COATING LEAD	
	4-382-854-01	SCREW (M3X8), P, SW (+)	
	4-382-854-01	SCREW (M3X8), P, SW (+)	

< CAPACITOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
C6001	⚠1-165-439-11	FILM 0.47UF	275V
C6002	⚠1-165-439-11	FILM 0.47UF	275V
C6003	⚠1-119-898-51	CERAMIC 2200PF	20.00% 250V
C6004	⚠1-119-898-51	CERAMIC 2200PF	20.00% 250V
C6005	1-126-965-91	ELECT 22UF	20.00% 50V
C6006	1-117-753-11	ELECT(BLOCK) 470UF	20.00% 450V
C6007	1-126-964-11	ELECT 10UF	20.00% 50V
C6008	1-126-963-11	ELECT 4.7UF	20.00% 50V
C6010	1-136-165-00	FILM 0.1UF	5.00% 50V
C6011	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C6012	⚠1-161-830-00	CERAMIC 0.0047UF	500V
C6013	⚠1-161-830-00	CERAMIC 0.0047UF	500V
C6014	1-113-610-11	ELECT(BLOCK) 220UF	20.00% 250V
C6015	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V
C6016	1-161-830-00	CERAMIC 0.0047UF	500V
C6017	1-161-830-00	CERAMIC 0.0047UF	500V
C6018	1-126-949-11	ELECT 220UF	20.00% 35V
C6020	1-135-946-21	FILM 47000PF	3% 800V
C6021	1-164-645-11	CERAMIC 1000PF	10.00% 500V
C6022	1-126-963-11	ELECT 4.7UF	20.00% 50V
C6023	1-110-626-11	ELECT 330UF	20.00% 160V
C6024	1-164-625-11	CERAMIC 680PF	10.00% 500V
C6025	1-164-625-11	CERAMIC 680PF	10.00% 500V
C6026	1-164-625-11	CERAMIC 680PF	10.00% 500V
C6027	1-164-625-11	CERAMIC 680PF	10.00% 500V
C6028	1-100-197-11	MYLAR 0.0015UF	20.00% 16V
C6029	1-100-197-11	MYLAR 0.0015UF	20.00% 16V
C6030	1-126-944-11	ELECT 3300UF	20.00% 25V
C6031	1-126-944-11	ELECT 3300UF	20.00% 25V
C6032	⚠1-113-927-11	CERAMIC 0.01UF	250V
C6033	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C6035	1-136-165-00	FILM 0.1UF	5.00% 50V
C6036	1-136-479-11	FILM 0.001UF	5.00% 100V
C6037	1-126-947-11	ELECT 47UF	20.00% 35V
C6038	1-164-645-11	CERAMIC 1000PF	10.00% 500V
C6039	1-125-891-11	CERAMIC CHIP 0.47UF	10.00% 10V
C6040	1-115-340-11	CERAMIC CHIP 0.22UF	10.00% 25V
C6045	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V
C6102	1-126-943-11	ELECT 2200UF	20.00% 25V
C6103	1-126-971-11	ELECT 470UF	20.00% 50V
C6105	1-126-964-11	ELECT 10UF	20.00% 50V
C6106	1-126-964-11	ELECT 10UF	20.00% 50V

< CONNECTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
CN6001	⚠*1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P	
CN6002	⚠*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P	
CN6003	⚠*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P	
CN6004	⚠*1-691-960-11	PIN, CONNECTOR (PC BOARD) 3P	
CN6005	*1-564-509-11	PLUG, CONNECTOR 6P	
CN6006	*1-564-516-11	PLUG, CONNECTOR 13P	
CN6007	⚠*1-580-843-11	PIN, CONNECTOR (POWER)	
CN6008	*1-564-508-11	PLUG, CONNECTOR 5P	

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

REF.NO.	PART.NO	DESCRIPTION	REMARK
CN6010	*1-564-511-11	PLUG, CONNECTOR 8P	
CN6013	*1-564-506-11	PLUG, CONNECTOR 3P	
CN6014	1-695-915-11	TAB (CONTACT)	
CN6015	1-695-915-11	TAB (CONTACT)	
		< DIODE >	
D6001	6-500-067-01	DIODE GSIB460L/45	
D6002	8-719-982-26	DIODE MTZJ-33B	
D6004	8-719-979-64	DIODE UF4005PKG23	
D6006	8-719-081-97	DIODE MMDL914T1	
D6007	8-719-081-97	DIODE MMDL914T1	
D6008	8-719-063-70	DIODE D1NL20U	
D6009	8-719-110-41	DIODE RD15ESB2	
D6010	8-719-085-24	DIODE FBIU4D7M1-B	
D6011	8-719-033-12	DIODE S3L40F	
D6012	8-719-033-12	DIODE S3L40F	
D6014	8-719-083-92	DIODE YG802C09RF122	
D6015	8-719-085-10	DIODE FMB-24LF654	
D6016	8-719-312-47	DIODE RBA-406B	
D6035	8-719-510-02	DIODE D1NS4	
D6036	8-719-081-97	DIODE MMDL914T1	
D6101	8-719-081-97	DIODE MMDL914T1	
D6102	8-719-511-40	DIODE S1VB40	
D6103	8-719-081-97	DIODE MMDL914T1	
D6104	8-719-081-97	DIODE MMDL914T1	
D6105	8-719-081-97	DIODE MMDL914T1	
D6106	8-719-081-97	DIODE MMDL914T1	
D6107	8-719-081-97	DIODE MMDL914T1	
		< FERRITE BEAD >	
FB6001	1-410-397-21	FERRITE 1.1UH	
FB6002	1-410-397-21	FERRITE 1.1UH	
FB6003	1-410-397-21	FERRITE 1.1UH	
FB6004	1-410-397-21	FERRITE 1.1UH	
FB6005	1-535-303-00	LEAD, JUMPER (5.0MM)	
FB6006	1-535-303-00	LEAD, JUMPER (5.0MM)	
		< IC >	
IC6001	8-759-670-30	IC MCZ3001D	
IC6003	8-749-016-19	IC SE135N-LF4	
		< COIL >	
L6001	1-406-663-21	INDUCTOR 47UH	
L6002	1-412-521-31	INDUCTOR 4.7UH	
L6003	1-412-521-31	INDUCTOR 4.7UH	
L6004	1-535-303-00	LEAD, JUMPER (5.0MM)	
L6005	1-535-303-00	LEAD, JUMPER (5.0MM)	
L6006	1-406-659-11	INDUCTOR 10UH	
L6007	1-412-525-31	INDUCTOR 10UH	
L6008	1-406-670-11	INDUCTOR 680UH	

REF.NO.	PART.NO	DESCRIPTION	REMARK
		< PHOTOCOUPLER >	
PH6001	⚠ 8-749-016-21	IC TCET1103G	
		< TRANSISTOR >	
Q6003	8-729-010-29	TRANSISTOR MSD601-RST1	
Q6005	8-729-029-56	TRANSISTOR DTA144ESA	
Q6006	6-550-146-01	TRANSISTOR SPA07N60C2-E8152	
Q6007	6-550-146-01	TRANSISTOR SPA07N60C2-E8152	
Q6010	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q6101	8-729-029-56	TRANSISTOR DTA144ESA	
Q6102	8-729-010-29	TRANSISTOR MSD601-RST1	
Q6103	8-729-029-56	TRANSISTOR DTA144ESA	
Q6104	8-729-010-29	TRANSISTOR MSD601-RST1	
Q6105	8-729-010-29	TRANSISTOR MSD601-RST1	
		< RESISTOR >	
JR6002	1-216-295-91	SHORT CHIP 0	
JR6004	1-216-295-91	SHORT CHIP 0	
R6003	⚠ 1-202-933-61	FUSIBLE 0.1 10% 1/2W	
R6004	⚠ 1-205-998-11	CEMENTED 1 5% 10W	
R6005	⚠ 1-205-998-11	CEMENTED 1 5% 10W	
R6006	⚠ 1-205-998-11	CEMENTED 1 5% 10W	
R6007	1-243-979-21	METAL OXIDE 0.1 5% 2W	
R6008	1-243-979-21	METAL OXIDE 0.1 5% 2W	
R6009	1-216-687-11	METAL CHIP 33K 0.5% 1/10W	
R6010	1-215-481-00	METAL 330K 1% 1/4W	
R6013	⚠ 1-218-265-11	METAL 8.2M 5% 1W	
R6014	1-215-926-00	METAL OXIDE 33K 5% 3W	
R6015	1-208-757-11	METAL CHIP 91 0.5% 1/10W	
R6016	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R6017	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R6018	1-247-895-91	CARBON 470K 5% 1/4W	
R6019	1-247-891-00	CARBON 330K 5% 1/4W	
R6020	1-216-820-11	METAL CHIP 820 5% 1/10W	
R6021	1-216-362-11	METAL OXIDE 0.27 5% 2W	
R6022	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R6024	1-216-615-11	METAL CHIP 33 0.5% 1/10W	
R6028	1-249-389-11	CARBON 4.7 5% 1/4W	
R6029	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R6030	1-216-817-11	METAL CHIP 470 5% 1/10W	
R6032	1-249-417-11	CARBON 1K 5% 1/4W	
R6033	1-215-481-00	METAL 330K 1% 1/4W	
R6035	1-260-083-11	CARBON 47 5% 1/2W	
R6036	1-216-817-11	METAL CHIP 470 5% 1/10W	
R6037	1-249-405-11	CARBON 100 5% 1/4W	
R6038	1-208-830-11	METAL CHIP 100K 0.5% 1/10W	
R6039	1-208-830-11	METAL CHIP 100K 0.5% 1/10W	
R6040	1-208-814-91	METAL CHIP 22K 0.5% 1/10W	

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

REF.NO.	PART.NO	DESCRIPTION	REMARK
R6042	1-216-295-91	SHORT CHIP 0	
R6045	1-216-639-11	METAL CHIP 330 0.5% 1/10W	
R6047	1-216-681-11	METAL CHIP 18K 0.5% 1/10W	
R6048	1-215-481-00	METAL 330K 1% 1/4W	
R6049	1-208-805-11	METAL CHIP 9.1K 0.5% 1/10W	
R6050	1-208-758-11	METAL CHIP 100 0.5% 1/10W	
R6054	1-216-615-11	METAL CHIP 33 0.5% 1/10W	
R6056	1-216-295-91	SHORT CHIP 0	
R6057	1-208-798-11	METAL CHIP 4.7K 0.5% 1/10W	
R6101	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R6102	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R6103	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R6104	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R6105	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R6106	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R6107	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R6108	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R6109	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R6110	1-216-821-11	METAL CHIP 1K 5% 1/10W	

< RELAY >

REF.NO.	PART.NO	DESCRIPTION	REMARK
RY6001	⚠ 1-755-395-11	RELAY (AC POWER)	
RY6002	⚠ 1-755-389-11	RELAY (AC POWER)	

< TRANSFORMER >

REF.NO.	PART.NO	DESCRIPTION	REMARK
T6001	⚠ 1-431-402-11	TRANSFORMER, LINE FILTER	
T6002	⚠ 1-437-443-11	TRANSFORMER, CONVERTER (PIT)	
T6003	⚠ 1-431-402-11	TRANSFORMER, LINE FILTER	
T6101	⚠ 1-437-483-11	TRANSFORMER, STANDBY	

< THERMISTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
TH6002	⚠ 1-804-650-11	THERMISTOR, POSITIVE	

* A-1304-241-A MS2 Board, Complete

REF.NO.	PART.NO	DESCRIPTION	REMARK
	*4-396-124-01	HOLDER (E), LED	

< CAPACITOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
C405	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C406	1-163-021-91	CERAMIC CHIP 0.01UF 10.00%	50V
C408	1-124-779-00	ELECT CHIP 10UF 20.00%	16V
C409	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C410	1-163-021-91	CERAMIC CHIP 0.01UF 10.00%	50V
C412	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C413	1-126-390-11	ELECT CHIP 22UF 20.00%	6.3V
C414	1-107-826-11	CERAMIC CHIP 0.1UF 10.00%	16V
C415	1-107-826-11	CERAMIC CHIP 0.1UF 10.00%	16V
C416	1-107-826-11	CERAMIC CHIP 0.1UF 10.00%	16V
C417	1-126-390-11	ELECT CHIP 22UF 20.00%	6.3V
C419	1-162-970-11	CERAMIC CHIP 0.01UF 10.00%	25V
C420	1-162-970-11	CERAMIC CHIP 0.01UF 10.00%	25V

< CONNECTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
CN401	*1-816-104-12	CONNECTOR, MEMORY STICK	
CN402	*1-816-124-11	PIN, CONNECTOR (FOR PWB) 18P	

< DIODE >

REF.NO.	PART.NO	DESCRIPTION	REMARK
D401	8-719-421-69	DIODE MA133	
D402	8-719-421-69	DIODE MA133	
D403	8-719-421-69	DIODE MA133	
D404	8-719-421-69	DIODE MA133	
D405	8-719-421-69	DIODE MA133	
D406	8-719-421-69	DIODE MA133	
D407	8-719-421-69	DIODE MA133	
D408	8-719-421-69	DIODE MA133	
D409	8-719-071-30	DIODE TLSU113P	
D410	8-719-036-82	DIODE RD3.9SB2	
D411	8-719-036-82	DIODE RD3.9SB2	
D412	8-719-421-69	DIODE MA133	
D413	8-719-421-69	DIODE MA133	
D414	8-719-421-69	DIODE MA133	
D415	8-719-421-69	DIODE MA133	
D416	8-719-421-69	DIODE MA133	
D417	8-719-421-69	DIODE MA133	

< FERRITE BEAD >

REF.NO.	PART.NO	DESCRIPTION	REMARK
FB401	1-414-921-11	FERRITE 0UH	
FB402	1-414-921-11	FERRITE 0UH	
FB403	1-414-921-11	FERRITE 0UH	
FB404	1-414-921-11	FERRITE 0UH	

< IC >

REF.NO.	PART.NO	DESCRIPTION	REMARK
IC401	8-759-639-86	IC SN65LVDS32DR	
IC402	6-701-763-11	IC DS90LV017ATMX	
IC403	8-759-698-08	IC SN74CBTLV1G125DCKR	

< COIL >

REF.NO.	PART.NO	DESCRIPTION	REMARK
L401	1-419-370-21	INDUCTOR 0UH	
L402	1-419-370-21	INDUCTOR 0UH	
L403	1-419-370-21	INDUCTOR 0UH	
L404	1-419-370-21	INDUCTOR 0UH	
L405	1-419-370-21	INDUCTOR 0UH	

< TRANSISTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
Q401	8-729-140-63	TRANSISTOR 2SA1611-M5M6	
Q402	8-729-029-14	TRANSISTOR DTC144EUA-T106	
Q403	8-729-216-22	TRANSISTOR 2SA1162-G	

< RESISTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
R401	1-216-801-11	METAL CHIP 22 5% 1/10W	
R402	1-216-801-11	METAL CHIP 22 5% 1/10W	

REF.NO.	PART.NO	DESCRIPTION	REMARK
R404	1-216-801-11	METAL CHIP 22 5%	1/10W
R405	1-218-692-11	METAL CHIP 1K 0.5%	1/16W
R406	1-216-809-11	METAL CHIP 100 5%	1/10W
R407	1-216-809-11	METAL CHIP 100 5%	1/10W
R408	1-216-809-11	METAL CHIP 100 5%	1/10W
R409	1-216-809-11	METAL CHIP 100 5%	1/10W
R410	1-216-803-11	METAL CHIP 33 5%	1/10W
R421	1-216-821-11	METAL CHIP 1K 5%	1/10W
R422	1-216-809-11	METAL CHIP 100 5%	1/10W
R424	1-216-833-11	METAL CHIP 10K 5%	1/10W
R425	1-216-845-11	METAL CHIP 100K 5%	1/10W
R426	1-218-871-11	METAL CHIP 10K 0.5%	1/10W
R428	1-216-864-11	SHORT CHIP 0	
R431	1-216-864-11	SHORT CHIP 0	

* A-1400-475-A H3 Board, Complete

REF.NO.	PART.NO	DESCRIPTION	REMARK
		< CAPACITOR >	
C900	1-102-074-00	CERAMIC 0.001UF 10.00%	50V
C901	1-102-074-00	CERAMIC 0.001UF 10.00%	50V
C902	1-102-074-00	CERAMIC 0.001UF 10.00%	50V
C903	1-102-074-00	CERAMIC 0.001UF 10.00%	50V
C906	1-126-960-11	ELECT 1UF 20.00%	50V
C907	1-126-960-11	ELECT 1UF 20.00%	50V
C908	1-102-106-00	CERAMIC 100PF 10.00%	50V
C909	1-102-106-00	CERAMIC 100PF 10.00%	50V
C911	1-102-074-00	CERAMIC 0.001UF 10.00%	50V
C912	1-102-074-00	CERAMIC 0.001UF 10.00%	50V
		< CONNECTOR >	
CN900	1-779-947-11	TERMINAL BLOCK, S	
CN907	1-764-334-11	PIN, CONNECTOR(PCB)(V TYPE)11P	
CN909	*1-564-510-11	PLUG, CONNECTOR 7P	
		< DIODE >	
D902	8-719-929-15	DIODE HZS9.1NB2	
D903	8-719-929-15	DIODE HZS9.1NB2	
D904	8-719-109-97	DIODE RD6.8ESB2	
D905	8-719-109-97	DIODE RD6.8ESB2	
		< SOCKET >	
J900	1-750-264-11	JACK	
		< COIL >	
L900	1-535-303-00	LEAD, JUMPER (5.0MM)	
L901	1-535-303-00	LEAD, JUMPER (5.0MM)	
L902	1-408-603-31	INDUCTOR 10UH	
L903	1-408-603-31	INDUCTOR 10UH	
L904	1-410-119-11	INDUCTOR 1MH	
		< RESISTOR >	
R903	1-249-406-11	CARBON 120 5%	1/4W
R904	1-249-406-11	CARBON 120 5%	1/4W
R905	1-247-895-91	CARBON 470K 5%	1/4W
R906	1-247-895-91	CARBON 470K 5%	1/4W
R909	1-247-895-91	CARBON 470K 5%	1/4W
R910	1-247-895-91	CARBON 470K 5%	1/4W
R915	1-249-406-11	CARBON 120 5%	1/4W
R916	1-249-406-11	CARBON 120 5%	1/4W
R917	1-247-807-31	CARBON 100 5%	1/4W
R918	1-247-807-31	CARBON 100 5%	1/4W
		< SWITCH >	
S900	1-692-431-21	SWITCH, TACTILE	
S901	1-692-431-21	SWITCH, TACTILE	
S902	1-692-431-21	SWITCH, TACTILE	
S903	1-692-431-21	SWITCH, TACTILE	
S904	1-692-431-21	SWITCH, TACTILE	
S905	1-692-431-21	SWITCH, TACTILE	

* A-1401-264-A C1 Board, Complete

REF.NO.	PART.NO	DESCRIPTION	REMARK
	4-382-854-01	SCREW (M3X8), P, SW (+)	
		< CAPACITOR >	
C9004	1-115-350-51	CERAMIC 0.0047UF	2KV
C9009	1-163-237-11	CERAMIC CHIP 27PF 5.00%	50V
C9010	1-163-237-11	CERAMIC CHIP 27PF 5.00%	50V
C9011	1-161-830-00	CERAMIC 0.0047UF	500V
C9012	1-161-830-00	CERAMIC 0.0047UF	500V
C9014	1-161-830-00	CERAMIC 0.0047UF	500V
C9015	1-163-237-11	CERAMIC CHIP 27PF 5.00%	50V
C9016	1-535-143-71	LEAD, JUMPER (7.5MM)	
C9017	1-537-864-11	PIN, POST	
C9018	1-107-961-91	ELECT 10UF 20.00%	250V
C9019	1-164-004-11	CERAMIC CHIP 0.1UF 10.00%	25V
C9020	1-107-961-91	ELECT 10UF 20.00%	250V
C9021	1-107-961-91	ELECT 10UF 20.00%	250V
C9022	1-101-004-00	CERAMIC 0.01UF	50V
C9023	1-101-004-00	CERAMIC 0.01UF	50V
C9024	1-164-004-11	CERAMIC CHIP 0.1UF 10.00%	25V
C9025	1-104-653-11	ELECT 220UF 20.00%	16V
C9026	1-164-004-11	CERAMIC CHIP 0.1UF 10.00%	25V
C9027	1-101-004-00	CERAMIC 0.01UF	50V
C9031	1-115-350-51	CERAMIC 0.0047UF	2KV
C9032	1-162-116-00	CERAMIC 680PF 10.00%	2KV
C9033	1-107-662-11	ELECT 22UF 20.00%	350V
C9042	1-126-940-11	ELECT 330UF 20.00%	25V
C9044	1-126-934-11	ELECT 220UF 20.00%	16V
C9045	1-164-004-11	CERAMIC CHIP 0.1UF 10.00%	25V

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

REF.NO.	PART.NO	DESCRIPTION	REMARK
C9048	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C9049	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C9050	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C9051	1-535-303-00	LEAD, JUMPER (5.0MM)	

< CONNECTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
CN9001	*1-564-511-11	PLUG, CONNECTOR 8P	
CN9002	*1-564-508-11	PLUG, CONNECTOR 5P	
CN9004	1-695-915-11	TAB (CONTACT)	
CN9009	1-695-915-11	TAB (CONTACT)	

< DIODE >

REF.NO.	PART.NO	DESCRIPTION	REMARK
D9005	8-719-404-50	DIODE MA111-TX	
D9006	8-719-051-85	DIODE HSS83TD	
D9007	8-719-051-85	DIODE HSS83TD	
D9008	8-719-051-85	DIODE HSS83TD	
D9009	8-719-908-03	DIODE GP08D	
D9010	8-719-110-17	DIODE RD10ESB2	
D9018	1-163-247-91	CERAMIC CHIP 68PF	5.00% 50V
D9019	1-163-247-91	CERAMIC CHIP 68PF	5.00% 50V
D9020	1-163-247-91	CERAMIC CHIP 68PF	5.00% 50V

< IC >

REF.NO.	PART.NO	DESCRIPTION	REMARK
IC9001	8-759-680-01	IC TDA6120Q/N2/S1	
IC9002	8-759-680-01	IC TDA6120Q/N2/S1	
IC9003	8-759-680-01	IC TDA6120Q/N2/S1	

< SOCKET >

REF.NO.	PART.NO	DESCRIPTION	REMARK
J9002	⚠ 1-251-732-11	SOCKET, CRT	

< COIL >

REF.NO.	PART.NO	DESCRIPTION	REMARK
L9001	1-535-303-00	LEAD, JUMPER (5.0MM)	
L9002	1-408-399-00	INDUCTOR 1.5UH	
L9003	1-408-592-11	INDUCTOR 1.2UH	
L9004	1-408-592-11	INDUCTOR 1.2UH	
L9005	1-406-666-21	INDUCTOR 150UH	
L9006	1-535-303-00	LEAD, JUMPER (5.0MM)	
NL9001	1-535-303-00	LEAD, JUMPER (5.0MM)	
NL9002	1-535-303-00	LEAD, JUMPER (5.0MM)	

< TRANSISTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
Q9001	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q9007	8-729-141-73	TRANSISTOR 2SC3624A-T1L15L16	
Q9009	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
Q9010	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
Q9011	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
Q9013	8-729-141-73	TRANSISTOR 2SC3624A-T1L15L16	
Q9015	8-729-141-73	TRANSISTOR 2SC3624A-T1L15L16	

< RESISTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
R9001	1-216-633-11	METAL CHIP 180 0.5%	1/10W
R9003	1-535-303-00	LEAD, JUMPER (5.0MM)	
R9006	1-249-429-11	CARBON 10K 5%	1/4W
R9007	1-216-655-11	METAL CHIP 1.5K 0.5%	1/10W
R9008	1-216-073-91	RES-CHIP 10K 5%	1/10W
R9012	1-535-303-00	LEAD, JUMPER (5.0MM)	
R9017	1-535-303-00	LEAD, JUMPER (5.0MM)	
R9018	1-216-633-11	METAL CHIP 180 0.5%	1/10W
R9019	1-216-633-11	METAL CHIP 180 0.5%	1/10W
R9020	1-216-025-11	RES-CHIP 100 5%	1/10W
R9021	1-216-103-00	RES-CHIP 180K 5%	1/10W
R9022	1-216-073-91	RES-CHIP 10K 5%	1/10W
R9023	1-216-103-00	RES-CHIP 180K 5%	1/10W
R9024	1-535-303-00	LEAD, JUMPER (5.0MM)	
R9025	1-216-025-11	RES-CHIP 100 5%	1/10W
R9026	1-216-655-11	METAL CHIP 1.5K 0.5%	1/10W
R9027	1-216-103-00	RES-CHIP 180K 5%	1/10W
R9028	1-216-103-00	RES-CHIP 180K 5%	1/10W
R9029	1-216-073-91	RES-CHIP 10K 5%	1/10W
R9030	1-216-073-91	RES-CHIP 10K 5%	1/10W
R9031	1-216-655-11	METAL CHIP 1.5K 0.5%	1/10W
R9032	1-216-103-00	RES-CHIP 180K 5%	1/10W
R9033	1-215-435-00	METAL 3.9K 1%	1/4W
R9034	1-215-428-00	METAL 2K 1%	1/4W
R9035	1-216-103-00	RES-CHIP 180K 5%	1/10W
R9036	1-216-083-00	RES-CHIP 27K 5%	1/10W
R9037	1-215-926-00	METAL OXIDE 33K 5%	3W
R9038	1-535-303-00	LEAD, JUMPER (5.0MM)	
R9039	1-216-025-11	RES-CHIP 100 5%	1/10W
R9040	1-535-143-31	LEAD, JUMPER (15.0MM)	
R9041	1-216-083-00	RES-CHIP 27K 5%	1/10W
R9042	1-216-083-00	RES-CHIP 27K 5%	1/10W
R9043	1-215-926-00	METAL OXIDE 33K 5%	3W
R9044	1-215-926-00	METAL OXIDE 33K 5%	3W
R9045	1-535-303-00	LEAD, JUMPER (5.0MM)	
R9046	1-535-303-00	LEAD, JUMPER (5.0MM)	
R9047	1-202-557-00	SOLID 220 20%	1/2W
R9048	1-216-049-11	RES-CHIP 1K 5%	1/10W
R9049	1-216-049-11	RES-CHIP 1K 5%	1/10W
R9051	1-202-557-00	SOLID 220 20%	1/2W
R9052	1-202-557-00	SOLID 220 20%	1/2W
R9056	1-202-549-00	SOLID 100 20%	1/2W
R9057	1-202-847-00	SOLID 560K 20%	1/2W
R9059	1-202-818-00	SOLID 1K 20%	1/2W
R9061	1-202-549-00	SOLID 100 20%	1/2W
R9069	1-535-143-31	LEAD, JUMPER (15.0MM)	
R9070	1-247-807-31	CARBON 100 5%	1/4W
R9071	1-247-807-31	CARBON 100 5%	1/4W

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

REF.NO.	PART.NO	DESCRIPTION	REMARK
R9072	1-247-807-31	CARBON 100 5%	1/4W
R9073	1-216-049-11	RES-CHIP 1K 5%	1/10W
R9092	1-216-295-91	SHORT CHIP 0	
R9094	1-216-295-91	SHORT CHIP 0	
R9095	1-216-295-91	SHORT CHIP 0	
R9098	1-535-303-00	LEAD, JUMPER (5.0MM)	
R9099	1-535-303-00	LEAD, JUMPER (5.0MM)	
R9100	1-535-303-00	LEAD, JUMPER (5.0MM)	
R9101	1-535-303-00	LEAD, JUMPER (5.0MM)	
R9102	1-216-864-11	SHORT CHIP 0	
R9103	1-216-839-11	METAL CHIP 33K 5%	1/10W
R9104	1-216-839-11	METAL CHIP 33K 5%	1/10W
R9105	1-216-839-11	METAL CHIP 33K 5%	1/10W

< RESISTOR VARIABLE >

REF.NO.	PART.NO	DESCRIPTION	REMARK
RV9001	1-241-714-11	RES, ADJ, METAL FILM 110M	

< SPARK GAP >

REF.NO.	PART.NO	DESCRIPTION	REMARK
SG9003	1-519-421-11	GAP, DISCHARGE	

* A-1401-265-A H Board, Complete

< CAPACITOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
C300	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C301	1-162-947-11	CERAMIC CHIP 33PF	5.00% 50V
C302	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C303	1-126-947-11	ELECT 47UF	20.00% 35V
C305	1-126-947-11	ELECT 47UF	20.00% 35V

< CONNECTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
CN300	*1-564-510-11	PLUG, CONNECTOR 7P	
CN301	*1-564-507-11	PLUG, CONNECTOR 4P	
CN302	*1-564-511-11	PLUG, CONNECTOR 8P	

< DIODE >

REF.NO.	PART.NO	DESCRIPTION	REMARK
D300	8-719-978-33	DIODE DTZ-TT11-6.8B	
D301	8-719-069-54	DIODE UDZSTE-175.1B	
D302	8-719-914-43	DIODE DAN202K	
D303	8-719-069-54	DIODE UDZSTE-175.1B	
D304	8-719-069-54	DIODE UDZSTE-175.1B	
D305	8-719-069-54	DIODE UDZSTE-175.1B	
D306	8-719-069-54	DIODE UDZSTE-175.1B	
D307	8-719-069-54	DIODE UDZSTE-175.1B	
D308	8-719-083-60	DIODE UDZSTE-174.7B	

< IC >

REF.NO.	PART.NO	DESCRIPTION	REMARK
IC300	8-752-412-99	IC CXD2088Q-T4	

< TRANSISTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
Q300	8-729-120-28	TRANSISTOR 2SC1623-L5L6	

< RESISTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
R300	1-216-833-11	METAL CHIP 10K 5%	1/10W
R301	1-216-809-11	METAL CHIP 100 5%	1/10W
R302	1-216-809-11	METAL CHIP 100 5%	1/10W
R304	1-216-809-11	METAL CHIP 100 5%	1/10W
R305	1-216-813-11	METAL CHIP 220 5%	1/10W
R306	1-216-864-11	SHORT CHIP 0	
R307	1-216-809-11	METAL CHIP 100 5%	1/10W
R308	1-216-809-11	METAL CHIP 100 5%	1/10W
R309	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R310	1-216-809-11	METAL CHIP 100 5%	1/10W
R311	1-216-809-11	METAL CHIP 100 5%	1/10W
R312	1-216-817-11	METAL CHIP 470 5%	1/10W
R313	1-216-809-11	METAL CHIP 100 5%	1/10W
R314	1-216-809-11	METAL CHIP 100 5%	1/10W
R315	1-216-809-11	METAL CHIP 100 5%	1/10W
R316	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R317	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R318	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R319	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R320	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R321	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R322	1-216-864-11	SHORT CHIP 0	
R323	1-216-838-11	METAL CHIP 27K 5%	1/10W
R324	1-216-833-11	METAL CHIP 10K 5%	1/10W

< CRYSTAL >

REF.NO.	PART.NO	DESCRIPTION	REMARK
X300	1-579-126-11	VIBRATOR, CERAMIC	

* A-1401-339-A F3 Board, Complete

REF.NO.	PART.NO	DESCRIPTION	REMARK
	4-205-711-01	HOLDER, LED	
	*4-374-846-01	COVER, CAPACITOR, CAP TYPE	

< CAPACITOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
C2150	1-126-969-11	ELECT 220UF	20.00% 50V
C2601	1-113-924-11	CERAMIC 0.0047UF	20.00% 250V

< CONNECTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
CN2151	*1-564-507-11	PLUG, CONNECTOR 4P	
CN2601	⚠*1-580-844-11	PIN, CONNECTOR (POWER)	
CN2602	1-695-915-11	TAB (CONTACT)	
CN2603	⚠*1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P	

< DIODE >

REF.NO.	PART.NO	DESCRIPTION	REMARK
D2150	8-719-081-56	DIODE L-59SRSGC-CC	
D2151	8-719-109-89	DIODE RD5.6ESB2	
D2152	8-719-109-89	DIODE RD5.6ESB2	

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

< FUSE >

REF.NO.	PART.NO	DESCRIPTION	REMARK
F2601	⚠ 1-576-232-21	FUSE (H.B.C.) 5A/250V	
	⚠ 1-533-725-11	HOLDER, FUSE (F2601)	

< IC >

REF.NO.	PART.NO	DESCRIPTION	REMARK
IC2150	8-742-180-30	HYB IC SBX3081-51(30)	

< TRANSISTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
Q2150	8-729-027-38	TRANSISTOR DTA144EKA-T146	
Q2151	8-729-900-53	TRANSISTOR DTC114EK	

< RESISTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
R2150	1-216-813-11	METAL CHIP 220 5%	1/10W
R2151	1-216-813-11	METAL CHIP 220 5%	1/10W
R2152	1-216-841-11	METAL CHIP 47K 5%	1/10W
R2153	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R2154	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R2155	1-216-809-11	METAL CHIP 100 5%	1/10W
R2156	1-216-815-11	METAL CHIP 330 5%	1/10W
R2601	⚠ 1-202-719-00	SOLID 1M 10%	1/2W

< SWITCH >

REF.NO.	PART.NO	DESCRIPTION	REMARK
S2601	⚠ 1-571-433-21	SWITCH, PUSH (AC POWER)	

< VARISTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
VD2601	⚠ 1-803-830-11	VARISTOR (ERZV14D621)	

* A-1401-380-A J3 Board, Complete

< CAPACITOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
C8105	1-126-933-11	ELECT 100UF	20.00% 16V
C8106	1-126-933-11	ELECT 100UF	20.00% 16V
C8107	1-126-935-11	ELECT 470UF	20.00% 16V
C8108	1-126-933-11	ELECT 100UF	20.00% 16V
C8109	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C8110	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C8111	1-126-933-11	ELECT 100UF	20.00% 16V
C8800	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8802	1-126-947-11	ELECT 47UF	20.00% 35V
C8803	1-126-947-11	ELECT 47UF	20.00% 35V
C8804	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8805	1-126-947-11	ELECT 47UF	20.00% 35V
C8844	1-162-974-11	CERAMIC CHIP 0.01UF	50V
C8845	1-162-974-11	CERAMIC CHIP 0.01UF	50V
C8858	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C8859	1-126-947-11	ELECT 47UF	20.00% 35V
C8860	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8863	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8864	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C8865	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8866	1-165-908-91	CERAMIC CHIP 1UF	10% 10V
C8867	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8868	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8869	1-126-964-11	ELECT 10UF	20.00% 50V
C8870	1-165-908-91	CERAMIC CHIP 1UF	10% 10V
C8871	1-165-908-91	CERAMIC CHIP 1UF	10% 10V
C8872	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8873	1-165-908-91	CERAMIC CHIP 1UF	10% 10V
C8874	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8875	1-165-908-91	CERAMIC CHIP 1UF	10% 10V
C8876	1-165-908-91	CERAMIC CHIP 1UF	10% 10V
C8877	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C8878	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8880	1-126-947-11	ELECT 47UF	20.00% 35V
C8881	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8882	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C8884	1-104-665-11	ELECT 100UF	20.00% 25V
C8885	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8887	1-164-346-11	CERAMIC CHIP 1UF	16V
C8888	1-164-346-11	CERAMIC CHIP 1UF	16V
C8889	1-126-947-11	ELECT 47UF	20.00% 35V
C8890	1-164-346-11	CERAMIC CHIP 1UF	16V
C8891	1-126-947-11	ELECT 47UF	20.00% 35V
C8892	1-164-346-11	CERAMIC CHIP 1UF	16V
C8893	1-164-346-11	CERAMIC CHIP 1UF	16V
C8894	1-164-346-11	CERAMIC CHIP 1UF	16V
C8895	1-164-346-11	CERAMIC CHIP 1UF	16V
C8896	1-164-346-11	CERAMIC CHIP 1UF	16V
C8897	1-164-346-11	CERAMIC CHIP 1UF	16V
C8898	1-164-346-11	CERAMIC CHIP 1UF	16V
C8899	1-164-346-11	CERAMIC CHIP 1UF	16V
C8900	1-164-346-11	CERAMIC CHIP 1UF	16V
C8901	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8902	1-164-346-11	CERAMIC CHIP 1UF	16V
C8903	1-126-947-11	ELECT 47UF	20.00% 35V
C8904	1-164-346-11	CERAMIC CHIP 1UF	16V
C8905	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8906	1-126-964-11	ELECT 10UF	20.00% 50V
C8907	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8910	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C8912	1-163-227-11	CERAMIC CHIP 10PF	0.50PF 50V
C8913	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C8914	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V
C8915	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V
C8916	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C8917	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V
C8918	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C8919	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V

REF.NO.	PART.NO	DESCRIPTION	REMARK
C8920	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V
C8921	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C8922	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V
C8923	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C8924	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V
C8934	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V
C8935	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V
C8939	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C8940	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C8959	1-107-910-11	ELECT 100UF	20.00% 50V
C8960	1-107-910-11	ELECT 100UF	20.00% 50V
C8961	1-104-665-11	ELECT 100UF	20.00% 25V
C8964	1-126-947-11	ELECT 47UF	20.00% 35V
C8966	1-104-665-11	ELECT 100UF	20.00% 25V
C8967	1-104-665-11	ELECT 100UF	20.00% 25V
C8968	1-126-947-11	ELECT 47UF	20.00% 35V
C8969	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C8970	1-104-665-11	ELECT 100UF	20.00% 25V
C8971	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8982	1-104-665-11	ELECT 100UF	20.00% 25V
C8983	1-104-665-11	ELECT 100UF	20.00% 25V
C8984	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8986	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8987	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8988	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8989	1-126-947-11	ELECT 47UF	20.00% 35V
C8990	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V
C8991	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V
C8992	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V
C8996	1-162-919-11	CERAMIC CHIP 22PF	5.00% 50V
C8999	1-162-919-11	CERAMIC CHIP 22PF	5.00% 50V
C9001	1-162-919-11	CERAMIC CHIP 22PF	5.00% 50V
C9093	1-162-915-11	CERAMIC CHIP 10PF	0.50PF 50V
C9094	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C9095	1-126-947-11	ELECT 47UF	20.00% 35V
C9096	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C9097	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V
C9098	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V
C9099	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V
C9101	1-162-915-11	CERAMIC CHIP 10PF	0.50PF 50V
C9102	1-162-915-11	CERAMIC CHIP 10PF	0.50PF 50V
C9103	1-162-915-11	CERAMIC CHIP 10PF	0.50PF 50V
C9104	1-162-919-11	CERAMIC CHIP 22PF	5.00% 50V
C9105	1-107-715-11	ELECT 22UF	20.00% 50V
C9106	1-126-947-11	ELECT 47UF	20.00% 35V
C9107	1-162-966-11	CERAMIC CHIP 0.0022UF	10.00% 50V
C9108	1-162-966-11	CERAMIC CHIP 0.0022UF	10.00% 50V
C9182	1-126-947-11	ELECT 47UF	20.00% 35V
C9183	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C9185	1-126-947-11	ELECT 47UF	20.00% 35V

REF.NO.	PART.NO	DESCRIPTION	REMARK
C9186	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C9188	1-104-665-11	ELECT 100UF	20.00% 25V
C9189	1-104-665-11	ELECT 100UF	20.00% 25V
C9190	1-127-715-91	CERAMIC CHIP 0.22UF	10% 16V
C9191	1-127-715-91	CERAMIC CHIP 0.22UF	10% 16V
C9192	1-104-665-11	ELECT 100UF	20.00% 25V
C9193	1-127-715-91	CERAMIC CHIP 0.22UF	10% 16V
C9194	1-104-665-11	ELECT 100UF	20.00% 25V

< CONNECTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
CN8805	*1-793-498-11	CONNECTOR, BOARD TO BOARD 50P	
CN8806	*1-815-672-12	CONNECTOR, RGB 21P	

< DIODE >

REF.NO.	PART.NO	DESCRIPTION	REMARK
D8300	8-719-083-57	DIODE UDZSTE-173.6B	
D8800	8-719-056-85	DIODE UDZ-TE-17-8.2B	
D8801	8-719-056-85	DIODE UDZ-TE-17-8.2B	
D8802	8-719-056-85	DIODE UDZ-TE-17-8.2B	
D8803	8-719-108-12	DIODE RD9.1EW	
D8805	8-719-158-49	DIODE RD12SB2	
D8806	8-719-158-49	DIODE RD12SB2	
D8807	8-719-158-49	DIODE RD12SB2	
D8808	8-719-158-49	DIODE RD12SB2	
D8809	8-719-158-49	DIODE RD12SB2	
D8810	8-719-158-49	DIODE RD12SB2	
D8811	8-719-158-49	DIODE RD12SB2	
D8812	8-719-158-49	DIODE RD12SB2	
D8813	8-719-158-49	DIODE RD12SB2	
D8814	8-719-158-49	DIODE RD12SB2	
D8815	8-719-158-49	DIODE RD12SB2	
D8816	8-719-158-49	DIODE RD12SB2	
D8817	8-719-158-49	DIODE RD12SB2	
D8818	8-719-158-49	DIODE RD12SB2	
D8819	8-719-056-85	DIODE UDZ-TE-17-8.2B	
D8820	8-719-158-49	DIODE RD12SB2	
D8821	8-719-056-85	DIODE UDZ-TE-17-8.2B	
D8822	8-719-056-85	DIODE UDZ-TE-17-8.2B	
D8823	8-719-056-85	DIODE UDZ-TE-17-8.2B	
D8824	8-719-056-85	DIODE UDZ-TE-17-8.2B	
D8825	8-719-056-85	DIODE UDZ-TE-17-8.2B	
D8826	8-719-056-85	DIODE UDZ-TE-17-8.2B	
D8827	8-719-056-85	DIODE UDZ-TE-17-8.2B	
D8828	8-719-056-85	DIODE UDZ-TE-17-8.2B	
D8829	8-719-056-85	DIODE UDZ-TE-17-8.2B	
D8830	8-719-158-49	DIODE RD12SB2	
D8831	8-719-158-49	DIODE RD12SB2	
D8832	8-719-158-49	DIODE RD12SB2	
D8833	8-719-158-49	DIODE RD12SB2	
D8839	8-719-108-12	DIODE RD9.1EW	
D8840	8-719-056-85	DIODE UDZ-TE-17-8.2B	

< FERRITE BEAD >

REF.NO.	PART.NO	DESCRIPTION	REMARK
FB8800	1-469-869-21	FERRITE 0UH	

< FILTER >

REF.NO.	PART.NO	DESCRIPTION	REMARK
FL8808	1-236-071-11	ENCAPSULATED COMPONENT	
FL8809	1-236-071-11	ENCAPSULATED COMPONENT	
FL8811	1-236-071-11	ENCAPSULATED COMPONENT	

< IC >

REF.NO.	PART.NO	DESCRIPTION	REMARK
IC8101	8-759-576-76	IC TDA2822D013TR	
IC8800	8-752-072-94	IC CXA1875AM-T4	
IC8806	8-752-096-83	IC CXA2149AQ-TL	
IC8809	8-759-439-64	IC HEF4053BT	
IC8810	8-759-587-03	IC TDA8601T	

< SOCKET >

REF.NO.	PART.NO	DESCRIPTION	REMARK
J8800	1-770-989-11	JACK, PIN 2P	

< COIL >

REF.NO.	PART.NO	DESCRIPTION	REMARK
L8804	1-412-539-11	INDUCTOR 150UH	
L8805	1-412-539-11	INDUCTOR 150UH	
L8806	1-412-539-11	INDUCTOR 150UH	

< TRANSISTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
Q8300	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8301	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8302	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8303	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8802	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
Q8803	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
Q8822	8-729-216-22	TRANSISTOR 2SA1162-G	
Q8823	8-729-038-96	TRANSISTOR IMZ1A-T109	
Q8824	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
Q8826	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
Q8827	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
Q8828	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
Q8829	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
Q8835	1-801-806-11	TR DTC144EKA	
Q8837	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
Q9181	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
Q9182	8-729-038-96	TRANSISTOR IMZ1A-T109	
Q9183	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
Q9184	8-729-038-96	TRANSISTOR IMZ1A-T109	
Q9205	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
Q9206	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
Q9211	8-729-038-96	TRANSISTOR IMZ1A-T109	
Q9212	8-729-038-96	TRANSISTOR IMZ1A-T109	
Q9213	8-729-038-96	TRANSISTOR IMZ1A-T109	

< RESISTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
R8109	1-249-389-11	CARBON 4.7 5% 1/4W	
R8110	1-249-389-11	CARBON 4.7 5% 1/4W	
R8115	1-216-029-00	RES-CHIP 150 5% 1/10W	
R8116	1-216-029-00	RES-CHIP 150 5% 1/10W	
R8117	1-216-029-00	RES-CHIP 150 5% 1/10W	
R8118	1-216-029-00	RES-CHIP 150 5% 1/10W	
R8800	1-216-815-11	METAL CHIP 330 5% 1/10W	
R8801	1-218-285-11	METAL CHIP 75 5% 1/10W	
R8802	1-216-813-11	METAL CHIP 220 5% 1/10W	
R8804	1-216-049-11	RES-CHIP 1K 5% 1/10W	
R8805	1-216-049-11	RES-CHIP 1K 5% 1/10W	
R8806	1-216-864-11	SHORT CHIP 0	
R8807	1-216-809-11	METAL CHIP 100 5% 1/10W	
R8808	1-216-809-11	METAL CHIP 100 5% 1/10W	
R8809	1-216-815-11	METAL CHIP 330 5% 1/10W	
R8811	1-216-805-11	METAL CHIP 47 5% 1/10W	
R8817	1-216-864-11	SHORT CHIP 0	
R8829	1-216-805-11	METAL CHIP 47 5% 1/10W	
R8830	1-216-805-11	METAL CHIP 47 5% 1/10W	
R8866	1-216-809-11	METAL CHIP 100 5% 1/10W	
R8868	1-216-864-11	SHORT CHIP 0	
R8870	1-216-839-11	METAL CHIP 33K 5% 1/10W	
R8871	1-216-864-11	SHORT CHIP 0	
R8877	1-216-864-11	SHORT CHIP 0	
R8880	1-216-809-11	METAL CHIP 100 5% 1/10W	
R8881	1-216-817-11	METAL CHIP 470 5% 1/10W	
R8882	1-216-817-11	METAL CHIP 470 5% 1/10W	
R8883	1-216-817-11	METAL CHIP 470 5% 1/10W	
R8884	1-216-817-11	METAL CHIP 470 5% 1/10W	
R8886	1-216-809-11	METAL CHIP 100 5% 1/10W	
R8887	1-216-839-11	METAL CHIP 33K 5% 1/10W	
R8890	1-211-985-11	METAL CHIP 47 0.5% 1/10W	
R8891	1-218-839-11	METAL CHIP 470 0.5% 1/10W	
R8893	1-218-827-11	METAL CHIP 150 0.5% 1/10W	
R8894	1-218-831-11	METAL CHIP 220 0.5% 1/10W	
R8895	1-218-851-11	METAL CHIP 1.5K 0.5% 1/10W	
R8896	1-216-836-11	METAL CHIP 18K 5% 1/10W	
R8897	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R8898	1-216-864-11	SHORT CHIP 0	
R8900	1-216-864-11	SHORT CHIP 0	
R8902	1-218-285-11	METAL CHIP 75 5% 1/10W	
R8903	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R8904	1-216-805-11	METAL CHIP 47 5% 1/10W	
R8905	1-216-813-11	METAL CHIP 220 5% 1/10W	
R8907	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R8908	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R8909	1-216-113-00	RES-CHIP 470K 5% 1/10W	
R8910	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	

REF.NO.	PART.NO	DESCRIPTION			REMARK
R8911	1-216-113-00	RES-CHIP	470K	5%	1/10W
R8912	1-216-843-11	METAL CHIP	68K	5%	1/10W
R8913	1-216-843-11	METAL CHIP	68K	5%	1/10W
R8914	1-218-885-11	METAL CHIP	39K	0.5%	1/10W
R8915	1-216-864-11	SHORT CHIP	0		
R8916	1-216-836-11	METAL CHIP	18K	5%	1/10W
R8917	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R8919	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R8921	1-216-809-11	METAL CHIP	100	5%	1/10W
R8922	1-216-809-11	METAL CHIP	100	5%	1/10W
R8923	1-216-864-11	SHORT CHIP	0		
R8925	1-216-864-11	SHORT CHIP	0		
R8926	1-216-864-11	SHORT CHIP	0		
R8931	1-216-816-11	METAL CHIP	390	5%	1/10W
R8932	1-216-864-11	SHORT CHIP	0		
R8933	1-216-816-11	METAL CHIP	390	5%	1/10W
R8934	1-216-841-11	METAL CHIP	47K	5%	1/10W
R8935	1-216-841-11	METAL CHIP	47K	5%	1/10W
R8936	1-216-113-00	RES-CHIP	470K	5%	1/10W
R8937	1-216-814-11	METAL CHIP	270	5%	1/10W
R8938	1-218-859-11	METAL CHIP	3.3K	0.5%	1/10W
R8939	1-216-814-11	METAL CHIP	270	5%	1/10W
R8940	1-216-864-11	SHORT CHIP	0		
R8941	1-216-809-11	METAL CHIP	100	5%	1/10W
R8942	1-218-285-11	METAL CHIP	75	5%	1/10W
R8944	1-216-071-00	RES-CHIP	8.2K	5%	1/10W
R8945	1-218-285-11	METAL CHIP	75	5%	1/10W
R8946	1-216-813-11	METAL CHIP	220	5%	1/10W
R8947	1-216-813-11	METAL CHIP	220	5%	1/10W
R8948	1-216-113-00	RES-CHIP	470K	5%	1/10W
R8949	1-218-859-11	METAL CHIP	3.3K	0.5%	1/10W
R8950	1-218-285-11	METAL CHIP	75	5%	1/10W
R8951	1-218-285-11	METAL CHIP	75	5%	1/10W
R8952	1-218-285-11	METAL CHIP	75	5%	1/10W
R8953	1-218-285-11	METAL CHIP	75	5%	1/10W
R8954	1-218-285-11	METAL CHIP	75	5%	1/10W
R8955	1-216-813-11	METAL CHIP	220	5%	1/10W
R8956	1-216-813-11	METAL CHIP	220	5%	1/10W
R8958	1-216-017-91	RES-CHIP	47	5%	1/10W
R8959	1-216-816-11	METAL CHIP	390	5%	1/10W
R8960	1-216-864-11	SHORT CHIP	0		
R8961	1-216-816-11	METAL CHIP	390	5%	1/10W
R8962	1-216-864-11	SHORT CHIP	0		
R8963	1-216-841-11	METAL CHIP	47K	5%	1/10W
R8964	1-216-841-11	METAL CHIP	47K	5%	1/10W
R8965	1-216-113-00	RES-CHIP	470K	5%	1/10W
R8966	1-216-113-00	RES-CHIP	470K	5%	1/10W
R8967	1-216-814-11	METAL CHIP	270	5%	1/10W
R8968	1-218-859-11	METAL CHIP	3.3K	0.5%	1/10W
R8969	1-216-814-11	METAL CHIP	270	5%	1/10W
R8970	1-218-859-11	METAL CHIP	3.3K	0.5%	1/10W
R8971	1-216-809-11	METAL CHIP	100	5%	1/10W
R8972	1-216-801-11	METAL CHIP	22	5%	1/10W
R8973	1-218-285-11	METAL CHIP	75	5%	1/10W
R8974	1-218-285-11	METAL CHIP	75	5%	1/10W
R8975	1-216-813-11	METAL CHIP	220	5%	1/10W
R8976	1-216-816-11	METAL CHIP	390	5%	1/10W
R8977	1-216-864-11	SHORT CHIP	0		
R8978	1-218-285-11	METAL CHIP	75	5%	1/10W
R8979	1-216-841-11	METAL CHIP	47K	5%	1/10W
R8980	1-216-017-91	RES-CHIP	47	5%	1/10W
R8981	1-216-113-00	RES-CHIP	470K	5%	1/10W
R8982	1-216-814-11	METAL CHIP	270	5%	1/10W
R8983	1-218-859-11	METAL CHIP	3.3K	0.5%	1/10W
R8984	1-216-816-11	METAL CHIP	390	5%	1/10W
R8985	1-216-864-11	SHORT CHIP	0		
R8986	1-216-809-11	METAL CHIP	100	5%	1/10W
R8987	1-216-841-11	METAL CHIP	47K	5%	1/10W
R8988	1-218-285-11	METAL CHIP	75	5%	1/10W
R8989	1-216-813-11	METAL CHIP	220	5%	1/10W
R8990	1-218-285-11	METAL CHIP	75	5%	1/10W
R8991	1-216-071-00	RES-CHIP	8.2K	5%	1/10W
R8992	1-216-113-00	RES-CHIP	470K	5%	1/10W
R8993	1-216-814-11	METAL CHIP	270	5%	1/10W
R8994	1-218-859-11	METAL CHIP	3.3K	0.5%	1/10W
R8996	1-216-017-91	RES-CHIP	47	5%	1/10W
R9004	1-218-285-11	METAL CHIP	75	5%	1/10W
R9005	1-216-813-11	METAL CHIP	220	5%	1/10W
R9006	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R9007	1-216-839-11	METAL CHIP	33K	5%	1/10W
R9008	1-216-849-11	METAL CHIP	220K	5%	1/10W
R9018	1-216-864-11	SHORT CHIP	0		
R9020	1-216-809-11	METAL CHIP	100	5%	1/10W
R9021	1-216-809-11	METAL CHIP	100	5%	1/10W
R9022	1-216-864-11	SHORT CHIP	0		
R9023	1-216-864-11	SHORT CHIP	0		
R9043	1-216-821-11	METAL CHIP	1K	5%	1/10W
R9045	1-216-821-11	METAL CHIP	1K	5%	1/10W
R9051	1-216-841-11	METAL CHIP	47K	5%	1/10W
R9052	1-216-841-11	METAL CHIP	47K	5%	1/10W
R9053	1-216-839-11	METAL CHIP	33K	5%	1/10W
R9055	1-216-841-11	METAL CHIP	47K	5%	1/10W
R9059	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R9063	1-216-864-11	SHORT CHIP	0		
R9077	1-216-808-11	METAL CHIP	82	5%	1/10W
R9084	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R9085	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R9086	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R9088	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R9089	1-216-797-11	METAL CHIP	10	5%	1/10W

REF.NO.	PART.NO	DESCRIPTION	REMARK
R9090	1-216-797-11	METAL CHIP 10 5% 1/10W	
R9094	1-216-809-11	METAL CHIP 100 5% 1/10W	
R9095	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R9099	1-216-809-11	METAL CHIP 100 5% 1/10W	
R9100	1-216-864-11	SHORT CHIP 0	
R9104	1-218-843-11	METAL CHIP 680 0.5% 1/10W	
R9105	1-218-843-11	METAL CHIP 680 0.5% 1/10W	
R9106	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R9107	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R9108	1-216-837-11	METAL CHIP 22K 5% 1/10W	
R9109	1-216-837-11	METAL CHIP 22K 5% 1/10W	
R9110	1-216-813-11	METAL CHIP 220 5% 1/10W	
R9111	1-216-813-11	METAL CHIP 220 5% 1/10W	
R9113	1-216-864-11	SHORT CHIP 0	
R9114	1-216-864-11	SHORT CHIP 0	
R9115	1-216-864-11	SHORT CHIP 0	
R9116	1-216-864-11	SHORT CHIP 0	
R9117	1-216-864-11	SHORT CHIP 0	
R9118	1-216-864-11	SHORT CHIP 0	
R9119	1-216-864-11	SHORT CHIP 0	
R9120	1-216-864-11	SHORT CHIP 0	
R9121	1-216-864-11	SHORT CHIP 0	
R9142	1-216-864-11	SHORT CHIP 0	
R9143	1-216-864-11	SHORT CHIP 0	
R9144	1-216-864-11	SHORT CHIP 0	
R9147	1-216-809-11	METAL CHIP 100 5% 1/10W	
R9148	1-218-871-11	METAL CHIP 10K 0.5% 1/10W	
R9149	1-216-864-11	SHORT CHIP 0	
R9150	1-218-871-11	METAL CHIP 10K 0.5% 1/10W	
R9151	1-216-864-11	SHORT CHIP 0	
R9170	1-216-295-91	SHORT CHIP 0	
R9171	1-216-295-91	SHORT CHIP 0	
R9174	1-216-805-11	METAL CHIP 47 5% 1/10W	
R9175	1-218-285-11	METAL CHIP 75 5% 1/10W	
R9176	1-216-813-11	METAL CHIP 220 5% 1/10W	
R9178	1-216-864-11	SHORT CHIP 0	
R9179	1-216-805-11	METAL CHIP 47 5% 1/10W	
R9180	1-216-805-11	METAL CHIP 47 5% 1/10W	
R9181	1-216-815-11	METAL CHIP 330 5% 1/10W	
R9182	1-216-864-11	SHORT CHIP 0	
R9185	1-216-864-11	SHORT CHIP 0	
R9186	1-216-843-11	METAL CHIP 68K 5% 1/10W	
R9187	1-216-837-11	METAL CHIP 22K 5% 1/10W	
R9188	1-216-817-11	METAL CHIP 470 5% 1/10W	
R9189	1-216-817-11	METAL CHIP 470 5% 1/10W	
R9190	1-216-864-11	SHORT CHIP 0	
R9191	1-218-843-11	METAL CHIP 680 0.5% 1/10W	
R9192	1-216-815-11	METAL CHIP 330 5% 1/10W	
R9193	1-216-864-11	SHORT CHIP 0	
R9196	1-216-864-11	SHORT CHIP 0	
R9197	1-216-091-00	RES-CHIP 56K 5% 1/10W	
R9198	1-216-837-11	METAL CHIP 22K 5% 1/10W	
R9199	1-216-817-11	METAL CHIP 470 5% 1/10W	
R9200	1-216-817-11	METAL CHIP 470 5% 1/10W	
R9201	1-216-864-11	SHORT CHIP 0	
R9202	1-218-843-11	METAL CHIP 680 0.5% 1/10W	
R9203	1-216-864-11	SHORT CHIP 0	
R9204	1-216-864-11	SHORT CHIP 0	
R9217	1-216-809-11	METAL CHIP 100 5% 1/10W	
R9218	1-216-809-11	METAL CHIP 100 5% 1/10W	
R9219	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R9221	1-216-864-11	SHORT CHIP 0	
R9222	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R9223	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R9224	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R9228	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R9229	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R9230	1-218-835-11	METAL CHIP 330 0.5% 1/10W	
R9231	1-218-835-11	METAL CHIP 330 0.5% 1/10W	
R9245	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R9247	1-216-864-11	SHORT CHIP 0	
R9248	1-216-817-11	METAL CHIP 470 5% 1/10W	
R9250	1-218-725-11	METAL CHIP 24K 0.5% 1/16W	
R9251	1-216-813-11	METAL CHIP 220 5% 1/10W	
R9252	1-216-842-11	METAL CHIP 56K 5% 1/10W	
R9253	1-216-817-11	METAL CHIP 470 5% 1/10W	
R9254	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R9255	1-216-813-11	METAL CHIP 220 5% 1/10W	
R9256	1-216-864-11	SHORT CHIP 0	
R9257	1-216-817-11	METAL CHIP 470 5% 1/10W	
R9258	1-216-842-11	METAL CHIP 56K 5% 1/10W	
R9259	1-218-725-11	METAL CHIP 24K 0.5% 1/16W	
R9260	1-216-817-11	METAL CHIP 470 5% 1/10W	
R9261	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R9262	1-216-813-11	METAL CHIP 220 5% 1/10W	
R9263	1-216-864-11	SHORT CHIP 0	
R9264	1-216-817-11	METAL CHIP 470 5% 1/10W	
R9265	1-216-842-11	METAL CHIP 56K 5% 1/10W	
R9266	1-218-725-11	METAL CHIP 24K 0.5% 1/16W	
R9267	1-216-817-11	METAL CHIP 470 5% 1/10W	
R9321	1-216-864-11	SHORT CHIP 0	
R9325	1-216-864-11	SHORT CHIP 0	
R9331	1-216-864-11	SHORT CHIP 0	
R9867	1-216-817-11	METAL CHIP 470 5% 1/10W	
R9868	1-216-817-11	METAL CHIP 470 5% 1/10W	
R9869	1-216-817-11	METAL CHIP 470 5% 1/10W	
R9870	1-216-817-11	METAL CHIP 470 5% 1/10W	
R9871	1-216-864-11	SHORT CHIP 0	
R9872	1-216-864-11	SHORT CHIP 0	

* A-1401-417-A A Board, Complete

REF.NO.	PART.NO	DESCRIPTION	REMARK
	4-201-023-01	SPACER, INSULATING	
	4-202-373-01	SPRING, IC	
	*4-206-387-11	SHIELD BASE, N	
	4-382-854-01	SCREW (M3X8), P, SW (+)	

< CAPACITOR >

REF.NO.	PART.NO	DESCRIPTION		REMARK
C1001	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C1002	1-126-935-11	ELECT	470UF	20.00% 16V
C1003	1-126-935-11	ELECT	470UF	20.00% 16V
C1006	1-136-495-11	FILM	0.068UF	5.00% 50V
C1007	1-136-495-11	FILM	0.068UF	5.00% 50V
C1008	1-104-665-11	ELECT	100UF	20.00% 25V
C1009	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C1010	1-126-916-11	ELECT	1000UF	20.00% 6.3V
C1011	1-126-916-11	ELECT	1000UF	20.00% 6.3V
C1012	1-126-935-11	ELECT	470UF	20.00% 16V
C1013	1-126-935-11	ELECT	470UF	20.00% 16V
C1014	1-126-957-11	ELECT	0.22UF	20.00% 50V
C1017	1-104-661-91	ELECT	330UF	20.00% 16V
C1018	1-162-970-11	CERAMIC CHIP	0.01UF	10.00% 25V
C1019	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C1020	1-126-933-11	ELECT	100UF	20.00% 16V
C1022	1-162-927-11	CERAMIC CHIP	100PF	5.00% 50V
C1023	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C1024	1-126-935-11	ELECT	470UF	20.00% 16V
C1025	1-126-935-11	ELECT	470UF	20.00% 16V
C1028	1-104-665-11	ELECT	100UF	20.00% 25V
C1029	1-136-495-11	FILM	0.068UF	5.00% 50V
C1030	1-136-495-11	FILM	0.068UF	5.00% 50V
C1031	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C1032	1-126-916-11	ELECT	1000UF	20.00% 6.3V
C1033	1-126-916-11	ELECT	1000UF	20.00% 6.3V
C1034	1-126-935-11	ELECT	470UF	20.00% 16V
C1035	1-104-652-11	ELECT	470UF	20.00% 10V
C1036	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C1037	1-126-939-11	ELECT	10000UF	20.00% 16V
C1038	1-104-665-11	ELECT	100UF	20.00% 25V
C1040	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C1041	1-136-495-11	FILM	0.068UF	5.00% 50V
C1042	1-126-916-11	ELECT	1000UF	20.00% 6.3V
C1043	1-164-156-11	CERAMIC CHIP	0.1UF	25V
C1044	1-164-156-11	CERAMIC CHIP	0.1UF	25V
C1045	1-104-665-11	ELECT	100UF	20.00% 25V
C1046	1-126-943-11	ELECT	2200UF	20.00% 25V
C1047	1-126-927-11	ELECT	2200UF	20.00% 10V
C1049	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V
C1050	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C1051	1-104-665-11	ELECT	100UF	20.00% 25V
C1052	1-126-935-11	ELECT	470UF	20.00% 16V
C1053	1-126-964-11	ELECT	10UF	20.00% 50V
C1054	1-126-964-11	ELECT	10UF	20.00% 50V
C1055	1-164-156-11	CERAMIC CHIP	0.1UF	25V
C1056	1-164-156-11	CERAMIC CHIP	0.1UF	25V
C1057	1-126-933-11	ELECT	100UF	20.00% 16V
C1058	1-126-933-11	ELECT	100UF	20.00% 16V
C1059	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C1060	1-104-665-11	ELECT	100UF	20.00% 25V
C1061	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C1062	1-126-935-11	ELECT	470UF	20.00% 16V
C1070	1-126-960-11	ELECT	1UF	20.00% 50V
C1104	1-126-933-11	ELECT	100UF	20.00% 16V
C1105	1-162-970-11	CERAMIC CHIP	0.01UF	10.00% 25V
C1201	1-115-340-11	CERAMIC CHIP	0.22UF	10.00% 25V
C1202	1-126-947-11	ELECT	47UF	20.00% 35V
C1203	1-136-175-00	FILM	0.68UF	5.00% 50V
C1204	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C1205	1-126-943-11	ELECT	2200UF	20.00% 25V
C1206	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C1207	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C1208	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C1209	1-163-135-00	CERAMIC CHIP	560PF	5.00% 50V
C1210	1-126-965-91	ELECT	22UF	20.00% 50V
C1211	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V
C1212	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V
C1213	1-126-965-91	ELECT	22UF	20.00% 50V
C1214	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V
C1215	1-162-966-11	CERAMIC CHIP	0.0022UF	10.00% 50V
C1216	1-162-927-11	CERAMIC CHIP	100PF	5.00% 50V
C1217	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C1218	1-164-505-11	CERAMIC CHIP	2.2UF	16V
C1219	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C1220	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C1222	1-130-777-00	MYLAR	0.1UF	5.00% 63V
C1223	1-126-952-11	ELECT	1000UF	20.00% 35V
C1224	1-111-216-91	ELECT	150UF	20.00% 63V
C1225	1-164-222-91	CERAMIC CHIP	0.22UF	25V
C1226	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C1227	1-126-952-11	ELECT	1000UF	20.00% 35V
C1228	1-126-961-11	ELECT	2.2UF	20.00% 50V
C1229	1-126-944-11	ELECT	3300UF	20.00% 25V
C1230	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C1231	1-162-966-11	CERAMIC CHIP	0.0022UF	10.00% 50V
C1232	1-126-947-11	ELECT	47UF	20.00% 35V
C1233	1-164-346-11	CERAMIC CHIP	1UF	16V
C1234	1-162-968-11	CERAMIC CHIP	0.0047UF	10.00% 50V
C1235	1-164-346-11	CERAMIC CHIP	1UF	16V
C1236	1-162-966-11	CERAMIC CHIP	0.0022UF	10.00% 50V
C1237	1-126-944-11	ELECT	3300UF	20.00% 25V

REF.NO.	PART.NO	DESCRIPTION		REMARK	
C1238	1-115-340-11	CERAMIC CHIP	0.22UF	10.00%	25V
C1239	1-163-087-00	CERAMIC CHIP	4PF	0.25PF	50V
C1242	1-163-087-00	CERAMIC CHIP	4PF	0.25PF	50V
C1245	1-162-923-11	CERAMIC CHIP	47PF	5.00%	50V
C1247	1-126-964-11	ELECT	10UF	20.00%	50V
C1249	1-126-964-11	ELECT	10UF	20.00%	50V
C1250	1-126-947-11	ELECT	47UF	20.00%	35V
C1251	1-163-107-00	CERAMIC CHIP	39PF	5.00%	50V
C1252	1-126-947-11	ELECT	47UF	20.00%	35V
C1254	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C1255	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C1256	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	16V
C1257	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C1258	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C1264	1-162-966-11	CERAMIC CHIP	0.0022UF	10.00%	50V
C1265	1-162-966-11	CERAMIC CHIP	0.0022UF	10.00%	50V
C1270	1-162-923-11	CERAMIC CHIP	47PF	5.00%	50V
C1271	1-162-923-11	CERAMIC CHIP	47PF	5.00%	50V
C1273	1-162-927-11	CERAMIC CHIP	100PF	5.00%	50V
C1274	1-163-241-11	CERAMIC CHIP	39PF	5.00%	50V
C1275	1-104-665-11	ELECT	100UF	20.00%	25V
C1276	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C1277	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	16V
C1278	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	16V
C1281	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	16V
C1282	1-126-964-11	ELECT	10UF	20.00%	50V
C1283	1-126-947-11	ELECT	47UF	20.00%	35V
C1284	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C1285	1-164-506-11	CERAMIC CHIP	4.7UF		16V
C1286	1-126-947-11	ELECT	47UF	20.00%	35V
C1287	1-126-947-11	ELECT	47UF	20.00%	35V
C1288	1-126-947-11	ELECT	47UF	20.00%	35V
C1289	1-126-947-11	ELECT	47UF	20.00%	35V
C1290	1-164-506-11	CERAMIC CHIP	4.7UF		16V
C1402	1-104-665-11	ELECT	100UF	20.00%	25V
C1403	1-164-222-91	CERAMIC CHIP	0.22UF		25V
C1404	1-164-222-91	CERAMIC CHIP	0.22UF		25V
C1405	1-104-665-11	ELECT	100UF	20.00%	25V
C1406	1-162-964-11	CERAMIC CHIP	0.001UF	10.00%	50V
C1407	1-164-222-91	CERAMIC CHIP	0.22UF		25V
C1408	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	16V
C1409	1-165-112-11	CERAMIC CHIP	0.33UF		16V
C1410	1-162-968-11	CERAMIC CHIP	0.0047UF	10.00%	50V
C1412	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C1413	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C1414	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C1416	1-104-665-11	ELECT	100UF	20.00%	25V
C1418	1-164-222-91	CERAMIC CHIP	0.22UF		25V
C1419	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V
C1420	1-165-112-11	CERAMIC CHIP	0.33UF		16V

REF.NO.	PART.NO	DESCRIPTION		REMARK	
C1424	1-126-963-11	ELECT	4.7UF	20.00%	50V
C1425	1-162-927-11	CERAMIC CHIP	100PF	5.00%	50V
C1426	1-115-340-11	CERAMIC CHIP	0.22UF	10.00%	25V
C1430	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	16V
C1431	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C1432	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C1434	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C1436	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C1437	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C1438	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C1439	1-137-581-11	FILM	0.1UF	5.00%	100V
C1440	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C1441	1-162-968-11	CERAMIC CHIP	0.0047UF	10.00%	50V
C1443	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C1444	1-126-947-11	ELECT	47UF	20.00%	35V
C1447	1-164-222-91	CERAMIC CHIP	0.22UF		25V
C1451	1-164-222-91	CERAMIC CHIP	0.22UF		25V
C1452	1-164-222-91	CERAMIC CHIP	0.22UF		25V
C1455	1-126-947-11	ELECT	47UF	20.00%	35V
C1457	1-104-665-11	ELECT	100UF	20.00%	25V
C1458	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C1459	1-126-963-11	ELECT	4.7UF	20.00%	50V
C1460	1-126-963-11	ELECT	4.7UF	20.00%	50V
C1461	1-162-966-11	CERAMIC CHIP	0.0022UF	10.00%	50V
C1462	1-126-947-11	ELECT	47UF	20.00%	35V
C1464	1-164-222-91	CERAMIC CHIP	0.22UF		25V
C1475	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C1476	1-126-933-11	ELECT	100UF	20.00%	16V
C1703	1-128-527-11	ELECT	330UF	20.00%	25V
C1704	1-126-968-11	ELECT	100UF	20.00%	50V
C1705	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C1706	1-137-401-11	MYLAR	0.22UF	5.00%	100V
C1707	1-102-228-00	CERAMIC	470PF	10.00%	500V
C1708	1-106-220-00	MYLAR	0.1UF	10.00%	100V
C1709	1-129-702-00	MYLAR	0.001UF	10.00%	400V
C1710	1-130-785-11	MYLAR	0.47UF	5.00%	100V
C1711	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C1712	1-126-968-11	ELECT	100UF	20.00%	50V
C1715	1-162-964-11	CERAMIC CHIP	0.001UF	10.00%	50V
C1716	1-104-665-11	ELECT	100UF	20.00%	25V
C1717	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C1720	1-126-964-11	ELECT	10UF	20.00%	50V
C1721	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C1800	1-162-968-11	CERAMIC CHIP	0.0047UF	10.00%	50V
C1801	1-162-927-11	CERAMIC CHIP	100PF	5.00%	50V
C1802	1-126-947-11	ELECT	47UF	20.00%	35V
C1803	1-164-222-91	CERAMIC CHIP	0.22UF		25V
C1804	1-163-809-11	CERAMIC CHIP	0.047UF	10.00%	25V
C1805	1-164-182-11	CERAMIC CHIP	0.0033UF	10.00%	50V
C1806	1-163-809-11	CERAMIC CHIP	0.047UF	10.00%	25V

REF.NO.	PART.NO	DESCRIPTION			REMARK
C1807	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C1808	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C1814	1-126-947-11	ELECT	47UF	20.00%	35V
C1816	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C1817	1-126-964-11	ELECT	10UF	20.00%	50V
C1822	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	16V
C1827	1-164-336-11	CERAMIC CHIP	0.33UF		25V
C1832	1-164-222-91	CERAMIC CHIP	0.22UF		25V
C1833	1-136-347-11	FILM	0.0047UF	5.00%	630V
C1837	1-136-153-00	FILM	0.01UF	5.00%	50V
C1843	1-137-499-11	FILM	0.015UF	5.00%	630V
C1850	1-126-947-11	ELECT	47UF	20.00%	35V
C1852	1-137-194-81	FILM	0.47UF	5.00%	50V
C1853	1-164-222-91	CERAMIC CHIP	0.22UF		25V
C1854	1-126-947-11	ELECT	47UF	20.00%	35V
C1855	1-126-947-11	ELECT	47UF	20.00%	35V
C1856	1-164-222-91	CERAMIC CHIP	0.22UF		25V
C1859	1-104-665-11	ELECT	100UF	20.00%	25V
C1861	1-126-941-11	ELECT	470UF	20.00%	25V
C1950	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C1951	1-136-165-00	FILM	0.1UF	5.00%	50V
C1952	1-126-947-11	ELECT	47UF	20.00%	35V
C1953	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C1970	1-126-964-11	ELECT	10UF	20.00%	50V
C1971	1-126-964-11	ELECT	10UF	20.00%	50V
C1972	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C1973	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C1974	1-126-964-11	ELECT	10UF	20.00%	50V
C1975	1-126-964-11	ELECT	10UF	20.00%	50V
C1980	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C1981	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C4000	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C4001	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C4002	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C4003	1-162-974-11	CERAMIC CHIP	0.01UF		50V
C4004	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C4006	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C4007	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C4008	1-162-974-11	CERAMIC CHIP	0.01UF		50V
C4010	1-126-204-11	ELECT CHIP	47UF	20.00%	16V
C4013	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C4015	1-126-968-11	ELECT	100UF	20.00%	50V
C4016	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C4017	1-127-715-91	CERAMIC CHIP	0.22UF	10%	16V
C4018	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C4019	1-164-160-11	CERAMIC CHIP	20PF	5.00%	50V
C4020	1-110-489-11	CAPACITOR	1F		5.5V
C4021	1-127-715-91	CERAMIC CHIP	0.22UF	10%	16V
C4022	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C4024	1-162-974-11	CERAMIC CHIP	0.01UF		50V

REF.NO.	PART.NO	DESCRIPTION			REMARK
C4025	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C4026	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C4027	1-162-974-11	CERAMIC CHIP	0.01UF		50V
C4028	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C4029	1-126-964-11	ELECT	10UF	20.00%	50V
C4030	1-126-964-11	ELECT	10UF	20.00%	50V
C4038	1-126-964-11	ELECT	10UF	20.00%	50V
C4046	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C4067	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C4068	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C4069	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C4070	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C4071	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C4072	1-162-974-11	CERAMIC CHIP	0.01UF		50V
C4075	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C4076	1-162-927-11	CERAMIC CHIP	100PF	5.00%	50V
C4077	1-162-927-11	CERAMIC CHIP	100PF	5.00%	50V
C4078	1-126-204-11	ELECT CHIP	47UF	20.00%	16V
C4080	1-126-206-11	ELECT CHIP	100UF	20.00%	6.3V

< CERAMIC TRAP >

REF.NO.	PART.NO	DESCRIPTION
CF1270	1-781-328-21	TRAP, CERAMIC

< CONNECTOR >

REF.NO.	PART.NO	DESCRIPTION
CN1000	*1-793-494-11	CONNECTOR, BOARD TO BOARD 40P
CN1001	*1-793-495-11	CONNECTOR, BOARD TO BOARD 50P
CN1004	1-695-915-11	TAB (CONTACT)
CN1201	*1-564-507-11	PLUG, CONNECTOR 4P
CN1202	*1-564-507-11	PLUG, CONNECTOR 4P
CN1251	1-695-915-11	TAB (CONTACT)
CN1602	*1-564-508-11	PLUG, CONNECTOR 5P
CN1603	*1-564-511-11	PLUG, CONNECTOR 8P
CN1604	1-764-333-11	PIN, CONNECTOR(PCB)(V TYPE)10P
CN1701	1-764-334-11	PIN, CONNECTOR(PCB)(V TYPE)11P
CN1702	*1-564-507-11	PLUG, CONNECTOR 4P
CN1706	*1-564-511-11	PLUG, CONNECTOR 8P
CN1802	*1-564-511-11	PLUG, CONNECTOR 8P
CN1803	*1-564-508-11	PLUG, CONNECTOR 5P
CN1804	*1-564-511-11	PLUG, CONNECTOR 8P
CN1805	1-764-333-11	PIN, CONNECTOR(PCB)(V TYPE)10P
CN1807	*1-564-510-11	PLUG, CONNECTOR 7P
CN1901	*1-564-506-11	PLUG, CONNECTOR 3P
CN1903	*1-691-772-11	PLUG (MICRO CONNECTOR) 10P
CN1999	*1-564-520-11	PLUG, CONNECTOR 5P
CN2000	*1-564-516-11	PLUG, CONNECTOR 13P
CN4000	*1-794-730-11	SOCKET, PC CONNECTOR (PC BOARD
CN4002	*1-793-493-11	CONNECTOR, BOARD TO BOARD 20P
CN7109	*1-793-495-11	CONNECTOR, BOARD TO BOARD 50P

< DIODE >

REF.NO.	PART.NO	DESCRIPTION	REMARK
D1001	8-719-500-70	DIODE D5S4M	
D1002	8-719-500-70	DIODE D5S4M	
D1003	8-719-914-43	DIODE DAN202K	
D1004	8-719-914-43	DIODE DAN202K	
D1005	8-719-500-70	DIODE D5S4M	
D1006	8-719-500-70	DIODE D5S4M	
D1007	8-719-914-44	DIODE DAP202K	
D1008	8-719-914-44	DIODE DAP202K	
D1009	8-719-069-55	DIODE UDZSTE-175.6B	
D1010	8-719-914-43	DIODE DAN202K	
D1011	8-719-069-55	DIODE UDZSTE-175.6B	
D1012	8-719-083-60	DIODE UDZSTE-174.7B	
D1013	8-719-069-56	DIODE UDZSTE-176.2B	
D1014	8-719-069-56	DIODE UDZSTE-176.2B	
D1016	8-719-069-55	DIODE UDZSTE-175.6B	
D1017	8-719-063-73	DIODE D1NL20U-TR	
D1018	8-719-500-70	DIODE D5S4M	
D1022	8-719-063-73	DIODE D1NL20U-TR	
D1070	8-719-914-44	DIODE DAP202K	
D1201	8-719-914-43	DIODE DAN202K	
D1202	8-719-914-44	DIODE DAP202K	
D1203	8-719-914-44	DIODE DAP202K	
D1204	8-719-914-43	DIODE DAN202K	
D1205	8-719-914-43	DIODE DAN202K	
D1206	8-719-083-60	DIODE UDZSTE-174.7B	
D1207	8-719-421-57	DIODE MA73-TX	
D1209	8-719-069-54	DIODE UDZSTE-175.1B	
D1210	8-719-510-02	DIODE D1NS4	
D1211	8-719-510-02	DIODE D1NS4	
D1235	8-719-083-82	DIODE UDZS-TE17-12B	
D1236	8-719-083-82	DIODE UDZS-TE17-12B	
D1237	8-719-083-82	DIODE UDZS-TE17-12B	
D1238	8-719-083-82	DIODE UDZS-TE17-12B	
D1239	8-719-110-09	DIODE RD8.2ESB3	
D1403	8-719-914-43	DIODE DAN202K	
D1406	8-719-069-60	DIODE UDZSTE-179.1B	
D1701	8-719-110-49	DIODE RD18ESB2	
D1702	8-719-908-03	DIODE GP08D	
D1703	8-719-110-41	DIODE RD15ESB2	
D1704	8-719-081-97	DIODE MMDL914T1	
D1705	8-719-081-97	DIODE MMDL914T1	
D1801	8-719-914-43	DIODE DAN202K	
D1802	8-719-914-43	DIODE DAN202K	
D1803	8-719-914-43	DIODE DAN202K	
D1804	8-719-914-43	DIODE DAN202K	
D1805	8-719-105-82	DIODE RD5.1M-B2	
D1806	8-719-914-43	DIODE DAN202K	
D1807	8-719-914-43	DIODE DAN202K	
D1808	8-719-914-43	DIODE DAN202K	
D1809	8-719-987-87	DIODE ERA85-009	
D1810	8-719-991-33	DIODE 1SS133T-77	
D1811	8-719-914-43	DIODE DAN202K	
D1813	8-719-063-73	DIODE D1NL20U-TR	
D1901	1-216-864-11	SHORT CHIP 0	
D4000	8-719-982-24	DIODE MTZJ-33A	
D4001	8-719-812-43	DIODE TLG124A	
D4002	8-719-914-43	DIODE DAN202K	

< FERRITE BEAD >

REF.NO.	PART.NO	DESCRIPTION	REMARK
FB1001	1-410-396-41	FERRITE 0.45UH	
FB1002	1-410-396-41	FERRITE 0.45UH	
FB1003	1-535-303-00	LEAD, JUMPER (5.0MM)	
FB1004	1-535-303-00	LEAD, JUMPER (5.0MM)	
FB1005	1-414-766-22	FERRITE 0UH	
FB1006	1-414-766-22	FERRITE 0UH	
FB1007	1-414-766-22	FERRITE 0UH	
FB1008	1-414-766-22	FERRITE 0UH	
FB1009	1-414-766-22	FERRITE 0UH	
FB1010	1-414-766-22	FERRITE 0UH	
FB1011	1-216-295-91	SHORT CHIP 0	
FB1012	1-216-295-91	SHORT CHIP 0	
FB1013	1-535-303-00	LEAD, JUMPER (5.0MM)	
FB1014	1-414-766-22	FERRITE 0UH	
FB1015	1-414-766-22	FERRITE 0UH	
FB1016	1-414-766-22	FERRITE 0UH	
FB1017	1-414-766-22	FERRITE 0UH	
FB1018	1-414-766-22	FERRITE 0UH	
FB1019	1-414-766-22	FERRITE 0UH	
FB1020	1-414-766-22	FERRITE 0UH	
FB1201	1-410-397-21	FERRITE 1.1UH	
FB1202	1-410-397-21	FERRITE 1.1UH	
FB1203	1-414-766-22	FERRITE 0UH	
FB1204	1-469-350-21	FERRITE 0UH	
FB1801	1-216-295-91	SHORT CHIP 0	
FB1802	1-216-295-91	SHORT CHIP 0	
FB1803	1-216-295-91	SHORT CHIP 0	
FB4000	1-216-797-11	METAL CHIP 10 5% 1/10W	
FB4008	1-216-793-11	METAL CHIP 4.7 5% 1/10W	
FB4011	1-469-869-21	FERRITE 0UH	
FB4013	1-469-869-21	FERRITE 0UH	
FB4014	1-469-869-21	FERRITE 0UH	
FB4015	1-469-869-21	FERRITE 0UH	
FB4018	1-469-869-21	FERRITE 0UH	
FB4019	1-469-869-21	FERRITE 0UH	
FB4020	1-469-869-21	FERRITE 0UH	
FB4021	1-469-869-21	FERRITE 0UH	

Note : The components identified by shading and marked △ are critical for safety. Replace only with the part numbers specified in the parts list.

REF.NO.	PART.NO	DESCRIPTION	REMARK
		< FILTER >	
FL1010	1-233-736-21	FILTER, EMI	
FL1011	1-239-899-21	FERRITE 0UH	
FL1231	1-236-071-11	ENCAPSULATED COMPONENT	
FL1232	1-236-071-11	ENCAPSULATED COMPONENT	
FL1270	1-233-764-21	FILTER	
FL4000	1-239-899-21	FERRITE 0UH	
FL4001	1-239-899-21	FERRITE 0UH	
FL4002	1-239-899-21	FERRITE 0UH	
FL4003	1-239-899-21	FERRITE 0UH	
FL4004	1-239-899-21	FERRITE 0UH	
		< IC >	
IC1001	8-759-450-47	IC BA05T	
IC1002	8-759-640-19	IC PQ1CG2032FZ	
IC1003	8-759-640-19	IC PQ1CG2032FZ	
IC1005	8-759-450-47	IC BA05T	
IC1006	8-759-640-19	IC PQ1CG2032FZ	
IC1007	8-759-640-19	IC PQ1CG2032FZ	
IC1008	8-752-072-94	IC CXA1875AM-T4	
IC1009	8-759-701-59	IC NJM78M09FA	
IC1010	8-759-640-19	IC PQ1CG2032FZ	
IC1011	8-759-450-47	IC BA05T	
IC1012	8-759-445-59	IC BA033T	
IC1013	8-759-450-47	IC BA05T	
IC1102	8-759-712-65	IC PQ070XZ01ZP	
IC1201	8-759-544-25	IC TDA7482	
IC1202	8-759-333-24	IC LM1876TF	
IC1231	6-701-031-11	IC MSP3411G-QA-B11	
IC1270	8-759-701-36	IC NJM3403AM	
IC1402	8-752-100-26	IC CXA2150AQ-TL	
IC1701	8-759-696-71	IC STV9379A	
IC1801	8-759-665-11	IC LM393DT	
IC1802	8-759-998-98	IC LM358D	
IC1803	8-759-567-08	IC MB88141APF-ER	
IC1804	8-759-665-11	IC LM393DT	
IC1808	8-759-665-11	IC LM393DT	
IC1811	8-759-803-42	IC LA6500-FA	
IC1812	8-759-394-35	IC BA12T	
IC1950	8-759-803-42	IC LA6500-FA	
IC4000	8-759-239-25	IC TC74HC4066AF	
IC4001	8-759-478-44	IC PCF8593/T118	
IC4004	8-759-544-26	IC LNBP11SP-TR	
IC4005	8-759-239-25	IC TC74HC4066AF	
		< COIL >	
L1000	1-419-249-11	INDUCTOR 15UH	
L1001	1-412-525-31	INDUCTOR 10UH	
L1002	1-412-525-31	INDUCTOR 10UH	

REF.NO.	PART.NO	DESCRIPTION	REMARK
L1003	1-414-934-21	INDUCTOR 10UH	
L1004	1-412-525-31	INDUCTOR 10UH	
L1005	1-412-525-31	INDUCTOR 10UH	
L1006	1-419-249-11	INDUCTOR 15UH	
L1007	1-419-249-11	INDUCTOR 15UH	
L1008	1-419-249-11	INDUCTOR 15UH	
L1009	1-419-249-11	INDUCTOR 15UH	
L1010	1-419-249-11	INDUCTOR 15UH	
L1011	1-419-249-11	INDUCTOR 15UH	
L1012	1-419-249-11	INDUCTOR 15UH	
L1013	1-412-525-31	INDUCTOR 10UH	
L1015	1-412-979-21	INDUCTOR 10UH	
L1016	1-412-979-21	INDUCTOR 10UH	
L1017	1-419-249-11	INDUCTOR 15UH	
L1018	1-419-249-11	INDUCTOR 15UH	
L1019	1-412-525-31	INDUCTOR 10UH	
L1020	1-412-525-31	INDUCTOR 10UH	
L1201	1-416-857-11	INDUCTOR 65UH	
L1202	1-414-158-11	INDUCTOR 2.2UH	
L1203	1-414-158-11	INDUCTOR 2.2UH	
L1233	1-414-934-21	INDUCTOR 10UH	
L1270	1-412-006-31	INDUCTOR 10UH	
L1272	1-408-615-31	INDUCTOR 100UH	
L1401	1-414-934-21	INDUCTOR 10UH	
L1402	1-414-934-21	INDUCTOR 10UH	
L1403	1-414-934-21	INDUCTOR 10UH	
L1404	1-414-934-21	INDUCTOR 10UH	
L1405	1-414-934-21	INDUCTOR 10UH	
L1406	1-414-934-21	INDUCTOR 10UH	
L1701	1-412-524-11	INDUCTOR 8.2UH	
L1801	1-416-920-11	INDUCTOR 10MH	
L1802	1-406-989-21	INDUCTOR 10MH	
L1803	1-414-934-21	INDUCTOR 10UH	
L1804	1-412-525-31	INDUCTOR 10UH	
L4000	1-414-742-21	INDUCTOR 22UH	
L4001	1-412-006-31	INDUCTOR 10UH	
L4002	1-412-006-31	INDUCTOR 10UH	
		< PROTECTOR MODULE >	
PS1011	△ 1-801-549-21	PROTECTOR, MODULE 4.0A MP250	
PS1012	△ 1-801-549-21	PROTECTOR, MODULE 4.0A MP250	
		< TRANSISTOR >	
Q1001	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
Q1002	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
Q1003	8-729-027-38	TRANSISTOR DTA144EKA-T146	
Q1004	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
Q1005	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	

REF.NO.	PART.NO	DESCRIPTION	REMARK
Q1006	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
Q1007	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
Q1008	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q1009	8-729-028-28	TRANSISTOR 2SK2036(TE85L)	
Q1010	8-729-028-28	TRANSISTOR 2SK2036(TE85L)	
Q1011	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
Q1012	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
Q1070	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1071	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q1072	1-801-806-11	TR DTC144EKA	
Q1201	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q1202	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
Q1203	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
Q1204	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
Q1205	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
Q1207	1-801-806-11	TR DTC144EKA	
Q1270	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
Q1271	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
Q1272	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
Q1402	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
Q1406	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q1407	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q1410	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q1411	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q1412	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q1413	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q1422	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q1423	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
Q1701	8-729-039-68	TRANSISTOR IRF620	
Q1801	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
Q1802	1-801-806-11	TR DTC144EKA	
Q1803	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
Q1804	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
Q1805	8-729-140-93	TRANSISTOR 2SB733-34	
Q1809	8-729-046-33	TRANSISTOR IRF720-LF49	
Q1811	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q1970	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
Q1971	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
Q1973	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
Q4000	1-801-806-11	TR DTC144EKA	
Q4001	1-801-806-11	TR DTC144EKA	
Q4002	1-801-806-11	TR DTC144EKA	
Q4003	8-729-028-28	TRANSISTOR 2SK2036(TE85L)	
Q4004	8-729-028-28	TRANSISTOR 2SK2036(TE85L)	
Q4005	8-729-028-28	TRANSISTOR 2SK2036(TE85L)	
Q4006	8-729-028-28	TRANSISTOR 2SK2036(TE85L)	
Q4017	1-801-806-11	TR DTC144EKA	
Q4018	1-801-806-11	TR DTC144EKA	
Q4124	1-801-806-11	TR DTC144EKA	

REF.NO.	PART.NO	DESCRIPTION	REMARK
		< RESISTOR >	
JR1006	1-216-864-11	SHORT CHIP 0	
JR1007	1-216-864-11	SHORT CHIP 0	
JR1238	1-216-295-91	SHORT CHIP 0	
R1001	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R1002	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R1003	1-218-847-11	METAL CHIP 1K 0.5% 1/10W	
R1004	1-218-839-11	METAL CHIP 470 0.5% 1/10W	
R1005	1-216-652-11	METAL CHIP 1.1K 0.5% 1/10W	
R1006	1-218-851-11	METAL CHIP 1.5K 0.5% 1/10W	
R1007	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R1009	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R1011	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R1012	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R1013	1-216-824-11	METAL CHIP 1.8K 5% 1/10W	
R1014	1-216-295-91	SHORT CHIP 0	
R1015	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R1016	1-216-809-11	METAL CHIP 100 5% 1/10W	
R1018	1-216-817-11	METAL CHIP 470 5% 1/10W	
R1019	1-216-817-11	METAL CHIP 470 5% 1/10W	
R1020	1-216-817-11	METAL CHIP 470 5% 1/10W	
R1021	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R1022	1-216-834-11	METAL CHIP 12K 5% 1/10W	
R1023	1-218-867-11	METAL CHIP 6.8K 0.5% 1/10W	
R1024	1-216-809-11	METAL CHIP 100 5% 1/10W	
R1025	1-216-817-11	METAL CHIP 470 5% 1/10W	
R1026	1-216-817-11	METAL CHIP 470 5% 1/10W	
R1027	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R1028	1-216-797-11	METAL CHIP 10 5% 1/10W	
R1029	1-216-817-11	METAL CHIP 470 5% 1/10W	
R1030	1-216-818-11	METAL CHIP 560 5% 1/10W	
R1031	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R1033	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R1034	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R1035	1-216-650-11	METAL CHIP 910 0.5% 1/10W	
R1036	1-218-847-11	METAL CHIP 1K 0.5% 1/10W	
R1037	1-216-652-11	METAL CHIP 1.1K 0.5% 1/10W	
R1038	1-218-851-11	METAL CHIP 1.5K 0.5% 1/10W	
R1039	1-216-809-11	METAL CHIP 100 5% 1/10W	
R1040	1-216-809-11	METAL CHIP 100 5% 1/10W	
R1041	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R1042	1-216-809-11	METAL CHIP 100 5% 1/10W	
R1043	1-216-809-11	METAL CHIP 100 5% 1/10W	
R1044	1-216-809-11	METAL CHIP 100 5% 1/10W	
R1045	1-216-809-11	METAL CHIP 100 5% 1/10W	
R1046	1-216-809-11	METAL CHIP 100 5% 1/10W	
R1047	1-216-864-11	SHORT CHIP 0	
R1048	1-216-295-91	SHORT CHIP 0	
R1049	1-216-809-11	METAL CHIP 100 5% 1/10W	

REF.NO.	PART.NO	DESCRIPTION				REMARK
R1050	1-216-809-11	METAL CHIP	100	5%	1/10W	
R1051	1-218-837-11	METAL CHIP	390	0.5%	1/10W	
R1052	1-218-847-11	METAL CHIP	1K	0.5%	1/10W	
R1053	1-218-837-11	METAL CHIP	390	0.5%	1/10W	
R1055	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R1057	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W	
R1058	1-216-835-11	METAL CHIP	15K	5%	1/10W	
R1059	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R1060	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R1061	1-216-864-11	SHORT CHIP	0			
R1063	1-216-864-11	SHORT CHIP	0			
R1064	1-216-840-11	METAL CHIP	39K	5%	1/10W	
R1065	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R1068	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R1069	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R1070	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R1071	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R1072	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R1073	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R1074	1-216-864-11	SHORT CHIP	0			
R1075	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R1076	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R1078	1-216-864-11	SHORT CHIP	0			
R1081	1-216-397-11	METAL OXIDE	4.7	5%	3W	
R1082	1-216-864-11	SHORT CHIP	0			
R1084	1-216-295-91	SHORT CHIP	0			
R1085	1-216-295-91	SHORT CHIP	0			
R1087	1-216-295-91	SHORT CHIP	0			
R1089	1-216-864-11	SHORT CHIP	0			
R1093	1-216-295-91	SHORT CHIP	0			
R1094	1-216-809-11	METAL CHIP	100	5%	1/10W	
R1095	1-218-875-11	METAL CHIP	15K	0.5%	1/10W	
R1096	1-216-864-11	SHORT CHIP	0			
R1097	1-216-864-11	SHORT CHIP	0			
R1104	1-216-864-11	SHORT CHIP	0			
R1108	1-216-864-11	SHORT CHIP	0			
R1109	1-216-864-11	SHORT CHIP	0			
R1117	1-216-864-11	SHORT CHIP	0			
R1119	1-216-864-11	SHORT CHIP	0			
R1120	1-216-864-11	SHORT CHIP	0			
R1121	1-216-864-11	SHORT CHIP	0			
R1122	1-216-864-11	SHORT CHIP	0			
R1125	1-216-864-11	SHORT CHIP	0			
R1126	1-216-864-11	SHORT CHIP	0			
R1128	1-216-864-11	SHORT CHIP	0			
R1129	1-216-864-11	SHORT CHIP	0			
R1131	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R1132	1-216-809-11	METAL CHIP	100	5%	1/10W	
R1133	1-216-809-11	METAL CHIP	100	5%	1/10W	
R1135	1-216-864-11	SHORT CHIP	0			
R1137	1-216-864-11	SHORT CHIP	0			
R1144	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R1145	1-216-650-11	METAL CHIP	910	0.5%	1/10W	
R1146	1-216-661-11	METAL CHIP	2.7K	0.5%	1/10W	
R1147	1-216-824-11	METAL CHIP	1.8K	5%	1/10W	
R1148	1-216-824-11	METAL CHIP	1.8K	5%	1/10W	
R1150	1-216-864-11	SHORT CHIP	0			
R1151	1-216-864-11	SHORT CHIP	0			
R1152	1-216-864-11	SHORT CHIP	0			
R1160	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R1198	1-216-864-11	SHORT CHIP	0			
R1199	1-216-864-11	SHORT CHIP	0			
R1201	1-216-817-11	METAL CHIP	470	5%	1/10W	
R1202	1-249-422-11	CARBON	2.7K	5%	1/4W	
R1203	1-249-422-11	CARBON	2.7K	5%	1/4W	
R1204	1-249-422-11	CARBON	2.7K	5%	1/4W	
R1205	1-216-809-11	METAL CHIP	100	5%	1/10W	
R1207	1-216-357-00	METAL OXIDE	4.7	5%	1W	
R1208	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R1209	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R1210	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R1211	1-216-828-11	METAL CHIP	3.9K	5%	1/10W	
R1212	1-216-828-11	METAL CHIP	3.9K	5%	1/10W	
R1213	1-216-357-00	METAL OXIDE	4.7	5%	1W	
R1214	1-216-296-11	SHORT CHIP	0			
R1215	1-216-631-11	METAL CHIP	150	0.5%	1/10W	
R1216	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R1217	1-216-819-11	METAL CHIP	680	5%	1/10W	
R1218	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R1219	1-216-819-11	METAL CHIP	680	5%	1/10W	
R1220	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R1221	1-216-296-11	SHORT CHIP	0			
R1222	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R1223	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R1224	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R1225	1-216-838-11	METAL CHIP	27K	5%	1/10W	
R1227	1-216-832-11	METAL CHIP	8.2K	5%	1/10W	
R1229	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R1230	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R1232	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R1234	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R1237	1-249-401-11	CARBON	47	5%	1/4W	
R1238	1-216-295-91	SHORT CHIP	0			
R1239	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R1240	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R1241	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R1242	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R1244	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R1246	1-216-864-11	SHORT CHIP	0			
R1248	1-216-864-11	SHORT CHIP	0			

REF.NO.	PART.NO	DESCRIPTION			REMARK
R1256	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1260	1-216-809-11	METAL CHIP	100	5%	1/10W
R1261	1-216-809-11	METAL CHIP	100	5%	1/10W
R1270	1-216-815-11	METAL CHIP	330	5%	1/10W
R1272	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1273	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1274	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1275	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1276	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1277	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1278	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1279	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1280	1-218-899-11	METAL CHIP	150K	0.5%	1/16W
R1281	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1283	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1284	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1286	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1287	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1288	1-216-818-11	METAL CHIP	560	5%	1/10W
R1289	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1290	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R1293	1-216-864-11	SHORT CHIP	0		
R1297	1-216-864-11	SHORT CHIP	0		
R1406	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1411	1-216-809-11	METAL CHIP	100	5%	1/10W
R1412	1-216-809-11	METAL CHIP	100	5%	1/10W
R1413	1-216-809-11	METAL CHIP	100	5%	1/10W
R1414	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R1416	1-216-835-11	METAL CHIP	15K	5%	1/10W
R1417	1-216-809-11	METAL CHIP	100	5%	1/10W
R1422	1-216-817-11	METAL CHIP	470	5%	1/10W
R1427	1-216-864-11	SHORT CHIP	0		
R1428	1-218-863-11	METAL CHIP	4.7K	0.5%	1/10W
R1434	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1435	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1437	1-216-809-11	METAL CHIP	100	5%	1/10W
R1441	1-216-295-91	SHORT CHIP	0		
R1443	1-216-809-11	METAL CHIP	100	5%	1/10W
R1444	1-216-863-11	METAL CHIP	3.3M	5%	1/10W
R1445	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R1447	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1448	1-216-809-11	METAL CHIP	100	5%	1/10W
R1450	1-216-809-11	METAL CHIP	100	5%	1/10W
R1451	1-216-809-11	METAL CHIP	100	5%	1/10W
R1452	1-216-295-91	SHORT CHIP	0		
R1453	1-216-295-91	SHORT CHIP	0		
R1454	1-216-809-11	METAL CHIP	100	5%	1/10W
R1456	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1457	1-216-809-11	METAL CHIP	100	5%	1/10W
R1459	1-216-809-11	METAL CHIP	100	5%	1/10W
R1460	1-216-809-11	METAL CHIP	100	5%	1/10W
R1461	1-216-809-11	METAL CHIP	100	5%	1/10W
R1462	1-216-809-11	METAL CHIP	100	5%	1/10W
R1463	1-216-809-11	METAL CHIP	100	5%	1/10W
R1464	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1466	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1468	1-216-864-11	SHORT CHIP	0		
R1469	1-216-809-11	METAL CHIP	100	5%	1/10W
R1470	1-216-809-11	METAL CHIP	100	5%	1/10W
R1471	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1472	1-218-271-11	METAL CHIP	2K	5%	1/10W
R1473	1-216-809-11	METAL CHIP	100	5%	1/10W
R1479	1-216-864-11	SHORT CHIP	0		
R1483	1-216-809-11	METAL CHIP	100	5%	1/10W
R1487	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1488	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1489	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1490	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1491	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1492	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R1493	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1494	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1495	1-218-889-11	METAL CHIP	56K	0.5%	1/10W
R1496	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1497	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1499	1-216-818-11	METAL CHIP	560	5%	1/10W
R1500	1-216-864-11	SHORT CHIP	0		
R1501	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1505	1-216-864-11	SHORT CHIP	0		
R1506	1-216-864-11	SHORT CHIP	0		
R1507	1-216-864-11	SHORT CHIP	0		
R1508	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1509	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1510	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1519	1-216-864-11	SHORT CHIP	0		
R1520	1-216-864-11	SHORT CHIP	0		
R1521	1-216-864-11	SHORT CHIP	0		
R1522	1-216-864-11	SHORT CHIP	0		
R1701	1-208-801-11	METAL CHIP	6.2K	0.5%	1/10W
R1702	1-208-801-11	METAL CHIP	6.2K	0.5%	1/10W
R1703	1-216-665-11	METAL CHIP	3.9K	0.5%	1/10W
R1704	1-216-665-11	METAL CHIP	3.9K	0.5%	1/10W
R1705	1-249-383-11	CARBON	1.5	5%	1/4W
R1706	1-249-389-11	CARBON	4.7	5%	1/4W
R1707	1-247-791-91	CARBON	22	5%	1/4W
R1708	1-215-913-11	METAL OXIDE	220	5%	3W
R1709	1-214-798-21	METAL	1.8	1%	1/2W
R1710	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1711	1-214-798-21	METAL	1.8	1%	1/2W
R1714	1-218-344-11	METAL CHIP	7.5K	5%	1/10W

REF.NO.	PART.NO	DESCRIPTION	REMARK
R1721	1-216-844-11	METAL CHIP 82K 5% 1/10W	
R1722	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R1723	1-216-836-11	METAL CHIP 18K 5% 1/10W	
R1801	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R1802	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R1803	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R1804	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R1805	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R1806	1-216-817-11	METAL CHIP 470 5% 1/10W	
R1807	1-208-806-11	METAL CHIP 10K 0.5% 1/10W	
R1809	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R1811	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R1812	1-218-875-11	METAL CHIP 15K 0.5% 1/10W	
R1813	1-218-875-11	METAL CHIP 15K 0.5% 1/10W	
R1814	1-218-867-11	METAL CHIP 6.8K 0.5% 1/10W	
R1815	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R1816	1-216-809-11	METAL CHIP 100 5% 1/10W	
R1817	1-216-809-11	METAL CHIP 100 5% 1/10W	
R1819	1-216-809-11	METAL CHIP 100 5% 1/10W	
R1820	1-216-809-11	METAL CHIP 100 5% 1/10W	
R1821	1-216-809-11	METAL CHIP 100 5% 1/10W	
R1823	1-216-809-11	METAL CHIP 100 5% 1/10W	
R1825	1-216-809-11	METAL CHIP 100 5% 1/10W	
R1826	1-218-895-11	METAL CHIP 100K 0.5% 1/10W	
R1828	1-216-864-11	SHORT CHIP 0	
R1829	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R1830	1-216-295-91	SHORT CHIP 0	
R1831	1-216-842-11	METAL CHIP 56K 5% 1/10W	
R1835	1-216-813-11	METAL CHIP 220 5% 1/10W	
R1838	1-216-827-11	METAL CHIP 3.3K 5% 1/10W	
R1839	1-218-875-11	METAL CHIP 15K 0.5% 1/10W	
R1840	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R1841	1-216-805-11	METAL CHIP 47 5% 1/10W	
R1842	1-216-805-11	METAL CHIP 47 5% 1/10W	
R1843	1-216-805-11	METAL CHIP 47 5% 1/10W	
R1844	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R1847	1-216-809-11	METAL CHIP 100 5% 1/10W	
R1848	1-216-809-11	METAL CHIP 100 5% 1/10W	
R1852	1-215-906-11	METAL OXIDE 15 5% 3W	
R1854	1-216-853-11	METAL CHIP 470K 5% 1/10W	
R1855	1-208-794-11	METAL CHIP 3.3K 0.5% 1/10W	
R1856	1-216-849-11	METAL CHIP 220K 5% 1/10W	
R1861	1-208-798-11	METAL CHIP 4.7K 0.5% 1/10W	
R1870	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R1876	1-218-873-11	METAL CHIP 12K 0.5% 1/10W	
R1879	1-208-804-11	METAL CHIP 8.2K 0.5% 1/10W	
R1882	1-208-790-11	METAL CHIP 2.2K 0.5% 1/10W	
R1886	1-216-837-11	METAL CHIP 22K 5% 1/10W	
R1890	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R1898	1-208-806-11	METAL CHIP 10K 0.5% 1/10W	
R1900	1-216-864-11	SHORT CHIP 0	
R1905	1-218-756-11	METAL CHIP 150K 0.5% 1/10W	
R1906	1-208-782-11	METAL CHIP 1K 0.5% 1/10W	
R1908	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R1909	1-208-798-11	METAL CHIP 4.7K 0.5% 1/10W	
R1911	1-218-760-11	METAL CHIP 220K 0.5% 1/10W	
R1916	1-216-353-00	METAL OXIDE 2.2 5% 1W	
R1930	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R1931	1-216-864-11	SHORT CHIP 0	
R1933	1-216-837-11	METAL CHIP 22K 5% 1/10W	
R1934	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R1935	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R1936	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R1950	1-218-888-11	METAL CHIP 51K 0.5% 1/10W	
R1951	1-218-853-11	METAL CHIP 1.8K 0.5% 1/10W	
R1952	1-218-867-11	METAL CHIP 6.8K 0.5% 1/10W	
R1953	1-215-867-00	METAL OXIDE 470 5% 1W	
R1954	1-249-395-11	CARBON 15 5% 1/4W	
R1955	1-216-818-11	METAL CHIP 560 5% 1/10W	
R1956	1-249-383-11	CARBON 1.5 5% 1/4W	
R1957	1-249-381-11	CARBON 1 5% 1/4W	
R1967	1-216-847-11	METAL CHIP 150K 5% 1/10W	
R1968	1-218-887-11	METAL CHIP 47K 0.5% 1/10W	
R1969	1-218-875-11	METAL CHIP 15K 0.5% 1/10W	
R1971	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R1972	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R1973	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R1975	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R1976	1-216-846-11	METAL CHIP 120K 5% 1/10W	
R1977	1-216-839-11	METAL CHIP 33K 5% 1/10W	
R1978	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R1979	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R1982	1-216-837-11	METAL CHIP 22K 5% 1/10W	
R1983	1-216-849-11	METAL CHIP 220K 5% 1/10W	
R1984	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R1985	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R1986	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R1987	1-218-871-11	METAL CHIP 10K 0.5% 1/10W	
R1988	1-218-889-11	METAL CHIP 56K 0.5% 1/10W	
R1989	1-218-871-11	METAL CHIP 10K 0.5% 1/10W	
R1990	1-216-839-11	METAL CHIP 33K 5% 1/10W	
R1995	1-216-843-11	METAL CHIP 68K 5% 1/10W	
R4000	1-216-864-11	SHORT CHIP 0	
R4002	1-412-006-31	INDUCTOR 10UH	
R4003	1-469-564-11	FERRITE 0UH	
R4004	1-469-564-11	FERRITE 0UH	
R4005	1-469-564-11	FERRITE 0UH	
R4006	1-469-564-11	FERRITE 0UH	
R4007	1-469-564-11	FERRITE 0UH	
R4008	1-469-564-11	FERRITE 0UH	

REF.NO.	PART.NO	DESCRIPTION	REMARK
R4009	1-469-564-11	FERRITE 0UH	
R4010	1-469-564-11	FERRITE 0UH	
R4011	1-216-805-11	METAL CHIP 47 5% 1/10W	
R4012	1-469-564-11	FERRITE 0UH	
R4013	1-216-864-11	SHORT CHIP 0	
R4014	1-216-864-11	SHORT CHIP 0	
R4015	1-412-006-31	INDUCTOR 10UH	
R4017	1-412-006-31	INDUCTOR 10UH	
R4018	1-412-006-31	INDUCTOR 10UH	
R4019	1-412-006-31	INDUCTOR 10UH	
R4020	1-412-006-31	INDUCTOR 10UH	
R4022	1-216-813-11	METAL CHIP 220 5% 1/10W	
R4023	1-216-837-11	METAL CHIP 22K 5% 1/10W	
R4024	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R4027	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R4028	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R4029	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R4030	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R4031	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R4032	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R4035	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R4036	1-216-809-11	METAL CHIP 100 5% 1/10W	
R4037	1-216-809-11	METAL CHIP 100 5% 1/10W	
R4038	1-216-837-11	METAL CHIP 22K 5% 1/10W	
R4039	1-216-809-11	METAL CHIP 100 5% 1/10W	
R4040	1-216-295-91	SHORT CHIP 0	
R4041	1-216-295-91	SHORT CHIP 0	
R4042	1-216-295-91	SHORT CHIP 0	
R4043	1-216-295-91	SHORT CHIP 0	
R4044	1-216-295-91	SHORT CHIP 0	
R4045	1-216-295-91	SHORT CHIP 0	
R4046	1-216-295-91	SHORT CHIP 0	
R4047	1-216-295-91	SHORT CHIP 0	
R4048	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R4049	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R4050	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R4051	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R4054	1-215-906-11	METAL OXIDE 15 5% 3W	
R4060	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R4061	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R4067	1-216-827-11	METAL CHIP 3.3K 5% 1/10W	
R4079	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R4080	1-216-864-11	SHORT CHIP 0	
R4081	1-216-864-11	SHORT CHIP 0	
R4082	1-216-864-11	SHORT CHIP 0	
R4083	1-216-864-11	SHORT CHIP 0	
R4084	1-216-864-11	SHORT CHIP 0	
R4085	1-216-864-11	SHORT CHIP 0	
R4086	1-216-864-11	SHORT CHIP 0	
R4101	1-216-864-11	SHORT CHIP 0	

REF.NO.	PART.NO	DESCRIPTION	REMARK
R4102	1-216-864-11	SHORT CHIP 0	
R4103	1-216-864-11	SHORT CHIP 0	
R4104	1-216-864-11	SHORT CHIP 0	
R4105	1-216-864-11	SHORT CHIP 0	
R4106	1-216-864-11	SHORT CHIP 0	
R4107	1-216-864-11	SHORT CHIP 0	
R4108	1-216-864-11	SHORT CHIP 0	
R4109	1-216-864-11	SHORT CHIP 0	
R4110	1-216-864-11	SHORT CHIP 0	
R4111	1-216-864-11	SHORT CHIP 0	
R4112	1-216-864-11	SHORT CHIP 0	
R4113	1-216-864-11	SHORT CHIP 0	
R4114	1-216-864-11	SHORT CHIP 0	
R4115	1-216-864-11	SHORT CHIP 0	
R4116	1-216-864-11	SHORT CHIP 0	
R4117	1-216-864-11	SHORT CHIP 0	
R4118	1-216-864-11	SHORT CHIP 0	
R4119	1-216-864-11	SHORT CHIP 0	
R4120	1-216-864-11	SHORT CHIP 0	
R4121	1-216-864-11	SHORT CHIP 0	
R4122	1-216-864-11	SHORT CHIP 0	
R4123	1-216-864-11	SHORT CHIP 0	
R4124	1-216-864-11	SHORT CHIP 0	
R4127	1-216-812-11	METAL CHIP 180 5% 1/10W	
R4128	1-216-812-11	METAL CHIP 180 5% 1/10W	
R4129	1-216-812-11	METAL CHIP 180 5% 1/10W	
R4130	1-216-812-11	METAL CHIP 180 5% 1/10W	
R4131	1-216-812-11	METAL CHIP 180 5% 1/10W	
R4132	1-216-812-11	METAL CHIP 180 5% 1/10W	
R4133	1-216-812-11	METAL CHIP 180 5% 1/10W	
R4134	1-216-812-11	METAL CHIP 180 5% 1/10W	

< THERMISTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
TH1701	1-800-193-00	THERMISTOR	

< TUNER >

REF.NO.	PART.NO	DESCRIPTION	REMARK
TU1001	8-598-529-10	FRONTEND BTF-EU611	
TU4000	8-598-585-00	FRONT END BTD-DU604	

< CRYSTAL >

REF.NO.	PART.NO	DESCRIPTION	REMARK
X1231	1-781-148-21	VIBRATOR, CRYSTAL	
X1401	1-760-895-21	VIBRATOR, CERAMIC	
X4000	1-760-105-11	VIBRATOR, CRYSTAL	

* A-1401-432-A M2 Board, Complete

< CAPACITOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
C103	1-162-921-11	CERAMIC CHIP 33PF 5.00% 50V	
C104	1-162-921-11	CERAMIC CHIP 33PF 5.00% 50V	

REF.NO.	PART.NO	DESCRIPTION	REMARK
C105	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C107	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C108	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C109	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C110	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C111	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C112	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C113	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C114	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C115	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C116	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C117	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C118	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C119	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C120	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C121	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C122	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C123	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C124	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C125	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C126	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C127	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C128	1-115-467-11	CERAMIC CHIP 0.22UF	10.00% 10V
C129	1-115-467-11	CERAMIC CHIP 0.22UF	10.00% 10V
C130	1-126-964-11	ELECT 10UF	20.00% 50V
C131	1-126-964-11	ELECT 10UF	20.00% 50V
C132	1-126-964-11	ELECT 10UF	20.00% 50V
C133	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C134	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C135	1-126-947-11	ELECT 47UF	20.00% 35V
C136	1-126-947-11	ELECT 47UF	20.00% 35V
C137	1-126-947-11	ELECT 47UF	20.00% 35V
C138	1-126-947-11	ELECT 47UF	20.00% 35V
C139	1-126-947-11	ELECT 47UF	20.00% 35V
C140	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C141	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C142	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C143	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C144	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C145	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C146	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C147	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C148	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C149	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C150	1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V

< CONNECTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
CN100	*1-793-497-11	CONNECTOR, BOARD TO BOARD 40P	
CN104	*1-564-509-11	PLUG, CONNECTOR 6P	

< FERRITE BEAD >

REF.NO.	PART.NO	DESCRIPTION	REMARK
FB103	1-414-766-22	FERRITE 0UH	
FB104	1-414-766-22	FERRITE 0UH	
FB105	1-414-766-22	FERRITE 0UH	
FB106	1-414-766-22	FERRITE 0UH	
FB107	1-414-766-22	FERRITE 0UH	
FB108	1-414-766-22	FERRITE 0UH	
FB109	1-414-766-22	FERRITE 0UH	
FB111	1-414-766-22	FERRITE 0UH	
FB112	1-414-766-22	FERRITE 0UH	
FB135	1-414-766-22	FERRITE 0UH	

< FILTER >

REF.NO.	PART.NO	DESCRIPTION	REMARK
FL100	1-233-736-21	FILTER, EMI	
FL101	1-233-736-21	FILTER, EMI	
FL102	1-233-736-21	FILTER, EMI	
FL103	1-233-736-21	FILTER, EMI	
FL104	1-233-736-21	FILTER, EMI	

< IC >

REF.NO.	PART.NO	DESCRIPTION	REMARK
IC101	6-702-313-01	IC PST600IMT	
IC103	6-702-057-01	IC SDA6000-B11-GEG	
IC104	8-759-682-41	IC M24C32-WMN6T(A)	
IC105	8-759-831-90	IC MT48LC8M16A2TG-75TR	
IC106	6-701-848-01	IC KF25BDT	
IC107	6-701-849-01	IC M27V160-100K1	

< TRANSISTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
Q101	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q102	1-801-806-11	TR DTC144EKA	
Q103	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q104	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q105	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q106	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q108	8-729-028-28	TRANSISTOR 2SK2036(TE85L)	
Q109	8-729-028-28	TRANSISTOR 2SK2036(TE85L)	
Q111	8-729-028-28	TRANSISTOR 2SK2036(TE85L)	
Q112	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q113	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q114	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q116	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q117	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q118	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q119	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q120	8-729-027-46	TRANSISTOR DTC114YKA-T146	

< RESISTOR >

REF.NO.	PART.NO	DESCRIPTION	REMARK
R101	1-216-864-11	SHORT CHIP 0	
R102	1-216-833-11	METAL CHIP 10K 5% 1/10W	

REF.NO.	PART.NO	DESCRIPTION	REMARK
R123	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R124	1-216-864-11	SHORT CHIP 0	
R125	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R126	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R127	1-216-864-11	SHORT CHIP 0	
R130	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R132	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R133	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R134	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R137	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R138	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R139	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R140	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R141	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R142	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R143	1-216-832-11	METAL CHIP 8.2K 5% 1/10W	
R144	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R145	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R146	1-216-812-11	METAL CHIP 180 5% 1/10W	
R152	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R158	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R159	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R161	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R163	1-216-864-11	SHORT CHIP 0	
R164	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R165	1-216-824-11	METAL CHIP 1.8K 5% 1/10W	
R166	1-216-824-11	METAL CHIP 1.8K 5% 1/10W	
R167	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R168	1-216-827-11	METAL CHIP 3.3K 5% 1/10W	
R169	1-216-827-11	METAL CHIP 3.3K 5% 1/10W	
R170	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R171	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R172	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R173	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R174	1-216-824-11	METAL CHIP 1.8K 5% 1/10W	
R175	1-216-824-11	METAL CHIP 1.8K 5% 1/10W	
R176	1-216-824-11	METAL CHIP 1.8K 5% 1/10W	
R177	1-216-805-11	METAL CHIP 47 5% 1/10W	
R178	1-216-805-11	METAL CHIP 47 5% 1/10W	
R179	1-216-805-11	METAL CHIP 47 5% 1/10W	
R180	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R181	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R182	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R183	1-216-809-11	METAL CHIP 100 5% 1/10W	
R184	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R185	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R186	1-216-808-11	METAL CHIP 82 5% 1/10W	
R187	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R188	1-216-827-11	METAL CHIP 3.3K 5% 1/10W	
R189	1-216-827-11	METAL CHIP 3.3K 5% 1/10W	

REF.NO.	PART.NO	DESCRIPTION	REMARK
R190	1-216-801-11	METAL CHIP 22 5% 1/10W	
R191	1-216-801-11	METAL CHIP 22 5% 1/10W	
R192	1-216-801-11	METAL CHIP 22 5% 1/10W	
R193	1-216-801-11	METAL CHIP 22 5% 1/10W	
R194	1-216-801-11	METAL CHIP 22 5% 1/10W	
R195	1-216-801-11	METAL CHIP 22 5% 1/10W	
R196	1-216-801-11	METAL CHIP 22 5% 1/10W	
R197	1-216-801-11	METAL CHIP 22 5% 1/10W	
R200	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R201	1-216-864-11	SHORT CHIP 0	
R212	1-218-835-11	METAL CHIP 330 0.5% 1/10W	
R215	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R218	1-216-864-11	SHORT CHIP 0	
R227	1-216-801-11	METAL CHIP 22 5% 1/10W	
R228	1-216-864-11	SHORT CHIP 0	
R229	1-216-864-11	SHORT CHIP 0	
R230	1-216-864-11	SHORT CHIP 0	
R232	1-216-864-11	SHORT CHIP 0	
R233	1-216-864-11	SHORT CHIP 0	
R234	1-216-864-11	SHORT CHIP 0	
R235	1-216-864-11	SHORT CHIP 0	
R236	1-216-864-11	SHORT CHIP 0	
R237	1-216-864-11	SHORT CHIP 0	
R240	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R245	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R246	1-216-864-11	SHORT CHIP 0	
R247	1-216-864-11	SHORT CHIP 0	
R248	1-216-827-11	METAL CHIP 3.3K 5% 1/10W	
R249	1-216-827-11	METAL CHIP 3.3K 5% 1/10W	

< RESISTOR CHIP >

REF.NO.	PART.NO	DESCRIPTION	REMARK
RB100	1-239-621-11	NETWORK RESISTOR (CHIP) 22	
RB101	1-239-621-11	NETWORK RESISTOR (CHIP) 22	
RB102	1-239-621-11	NETWORK RESISTOR (CHIP) 22	
RB103	1-239-621-11	NETWORK RESISTOR (CHIP) 22	
RB104	1-239-621-11	NETWORK RESISTOR (CHIP) 22	
RB105	1-239-621-11	NETWORK RESISTOR (CHIP) 22	
RB106	1-239-711-91	NETWORK RESISTOR (CHIP) 0	
RB107	1-239-711-91	NETWORK RESISTOR (CHIP) 0	
RB108	1-239-711-91	NETWORK RESISTOR (CHIP) 0	
RB109	1-239-711-91	NETWORK RESISTOR (CHIP) 0	
RB110	1-239-711-91	NETWORK RESISTOR (CHIP) 0	
RB111	1-239-711-91	NETWORK RESISTOR (CHIP) 0	
RB112	1-239-711-91	NETWORK RESISTOR (CHIP) 0	
RB113	1-239-621-11	NETWORK RESISTOR (CHIP) 22	
RB114	1-239-621-11	NETWORK RESISTOR (CHIP) 22	
RB115	1-239-621-11	NETWORK RESISTOR (CHIP) 22	
RB116	1-239-621-11	NETWORK RESISTOR (CHIP) 22	
RB117	1-239-621-11	NETWORK RESISTOR (CHIP) 22	
RB118	1-239-621-11	NETWORK RESISTOR (CHIP) 22	

REF.NO.	PART.NO	DESCRIPTION	REMARK
RB119	1-239-621-11	NETWORK RESISTOR (CHIP) 22	
RB120	1-234-524-21	RES, CHIP NETWORK 33	
RB121	1-234-524-21	RES, CHIP NETWORK 33	
RB122	1-234-524-21	RES, CHIP NETWORK 33	
RB123	1-234-524-21	RES, CHIP NETWORK 33	
		< CRYSTAL >	
X100	1-567-162-00	OSCILLATOR, CRYSTAL	

* A-1401-267-A VM Board, Complete

	4-382-854-01	SCREW (M3X8), P, SW (+)	
		< CAPACITOR >	
C5400	1-107-883-11	ELECT 330UF 20.00% 16V	
C5401	1-126-935-11	ELECT 470UF 20.00% 16V	
C5402	1-137-150-11	FILM 0.01UF 5.00% 100V	
C5403	1-126-935-11	ELECT 470UF 20.00% 16V	
C5405	1-126-933-11	ELECT 100UF 20.00% 16V	
C5406	1-126-935-11	ELECT 470UF 20.00% 16V	
C5407	1-107-364-11	MYLAR 0.01UF 10.00% 200V	
C5408	1-107-364-11	MYLAR 0.01UF 10.00% 200V	
C5409	1-107-649-11	ELECT 2.2UF 20.00% 250V	
C5410	1-130-471-00	MYLAR 0.001UF 5.00% 50V	
C5411	1-130-471-00	MYLAR 0.001UF 5.00% 50V	
C5412	1-126-935-11	ELECT 470UF 20.00% 16V	
C5413	1-126-935-11	ELECT 470UF 20.00% 16V	
C5414	1-107-652-11	ELECT 10UF 20.00% 250V	
C5415	1-107-363-91	MYLAR 0.0068UF 10.00% 200V	
C5417	1-102-514-11	CERAMIC 22PF 5.00% 50V	
C5418	1-101-880-00	CERAMIC 47PF 5.00% 50V	
		< CONNECTOR >	
CN5402	*1-564-506-11	PLUG, CONNECTOR 3P	
CN5444	*1-770-723-11	CONNECTOR, BOARD TO BOARD 8P	
CN5602	*1-564-508-11	PLUG, CONNECTOR 5P	
		< DIODE >	
D5400	8-719-991-33	DIODE 1SS133T-77	
D5401	8-719-510-02	DIODE D1NS4	
D5402	1-535-303-00	LEAD, JUMPER (5.0MM)	
D5403	8-719-991-33	DIODE 1SS133T-77	
D5404	8-719-991-33	DIODE 1SS133T-77	
D5405	8-719-924-11	DIODE MTZJ-T-77-22	
D5406	8-719-924-11	DIODE MTZJ-T-77-22	
		< COIL >	
L5400	1-410-784-41	INDUCTOR 0.18UH	
L5401	1-414-930-21	INDUCTOR 2.2UH	

REF.NO.	PART.NO	DESCRIPTION	REMARK
		< TRANSISTOR >	
Q5400	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q5401	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q5402	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q5403	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q5404	8-729-026-39	TRANSISTOR 2SA933AS-QT	
Q5405	8-729-026-39	TRANSISTOR 2SA933AS-QT	
Q5406	8-729-045-05	TRANSISTOR 2SA2005	
Q5407	8-729-045-04	TRANSISTOR 2SC5511	
Q5408	8-729-026-39	TRANSISTOR 2SA933AS-QT	
Q5409	8-729-119-78	TRANSISTOR 2SC2785-HFE	
		< RESISTOR >	
R5401	1-247-843-11	CARBON 3.3K 5% 1/4W	
R5402	1-249-413-11	CARBON 470 5% 1/4W	
R5403	1-249-393-11	CARBON 10 5% 1/4W	
R5404	1-249-420-11	CARBON 1.8K 5% 1/4W	
R5405	1-249-425-11	CARBON 4.7K 5% 1/4W	
R5406	1-249-425-11	CARBON 4.7K 5% 1/4W	
R5407	1-249-399-11	CARBON 33 5% 1/4W	
R5408	1-247-807-31	CARBON 100 5% 1/4W	
R5409	1-249-409-11	CARBON 220 5% 1/4W	
R5410	1-249-401-11	CARBON 47 5% 1/4W	
R5411	1-249-401-11	CARBON 47 5% 1/4W	
R5412	1-249-429-11	CARBON 10K 5% 1/4W	
R5413	1-249-414-11	CARBON 560 5% 1/4W	
R5414	1-249-432-11	CARBON 18K 5% 1/4W	
R5415	1-260-316-51	CARBON 100 5% 1/2W	
R5416	1-249-388-11	CARBON 3.9 5% 1/4W	
R5417	1-249-432-11	CARBON 18K 5% 1/4W	
R5418	1-249-414-11	CARBON 560 5% 1/4W	
R5419	1-249-421-11	CARBON 2.2K 5% 1/4W	
R5420	1-249-421-11	CARBON 2.2K 5% 1/4W	
R5421	1-249-386-11	CARBON 2.7 5% 1/4W	
R5422	1-249-405-11	CARBON 100 5% 1/4W	
R5423	1-215-915-11	METAL OXIDE 470 5% 3W	
R5425	1-535-303-00	LEAD, JUMPER (5.0MM)	
R5427	1-249-401-11	CARBON 47 5% 1/4W	
R5428	1-249-413-11	CARBON 470 5% 1/4W	
R5429	1-249-413-11	CARBON 470 5% 1/4W	
R5430	1-249-417-11	CARBON 1K 5% 1/4W	
R5432	1-249-415-11	CARBON 680 5% 1/4W	
R5433	1-249-400-11	CARBON 39 5% 1/4W	
R5434	1-249-395-11	CARBON 15 5% 1/4W	

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

* A-1636-052-A G1 Board, Complete

REF.NO.	PART.NO	DESCRIPTION			REMARK
	4-202-373-01	SPRING, IC			
	4-382-854-01	SCREW (M3X8), P, SW (+)			
		< CAPACITOR >			
C4600	⚠ 1-161-964-91	CERAMIC	0.0047UF		250V
C4601	⚠ 1-161-964-91	CERAMIC	0.0047UF		250V
C4602	1-165-685-11	ELECT(BLOCK)	82UF	20	450V
C4603	1-127-568-51	CERAMIC	4700PF	10%	2KV
C4604	1-126-964-11	ELECT	10UF	20.00%	50V
C4605	1-102-228-00	CERAMIC	470PF	10.00%	500V
C4606	1-162-318-11	CERAMIC	0.001UF	10.00%	500V
C4607	1-165-602-91	CERAMIC	220PF	10	2KV
C4608	1-126-967-11	ELECT	47UF	20.00%	50V
C4609	1-130-777-00	MYLAR	0.1UF	5.00%	100V
C4610	1-130-777-00	MYLAR	0.1UF	5.00%	100V
C4611	1-126-971-11	ELECT	470UF	20.00%	50V
C4612	1-136-165-00	FILM	0.1UF	5.00%	50V
C4615	1-136-165-00	FILM	0.1UF	5.00%	50V
C4616	1-104-665-11	ELECT	100UF	20.00%	25V
C4618	1-136-165-00	FILM	0.1UF	5.00%	50V
C4619	1-104-665-11	ELECT	100UF	20.00%	25V
C4621	1-136-165-00	FILM	0.1UF	5.00%	50V
C4622	1-104-665-11	ELECT	100UF	20.00%	25V
C4623	1-136-165-00	FILM	0.1UF	5.00%	50V
C4624	1-126-961-11	ELECT	2.2UF	20.00%	50V
C4625	1-115-766-51	ELECT	0.0022F	20.00%	16V
C4626	1-104-665-11	ELECT	100UF	20.00%	25V
C4627	1-136-165-00	FILM	0.1UF	5.00%	50V
C4628	1-115-766-51	ELECT	0.0022F	20.00%	16V
C4629	1-115-792-11	ELECT	0.0022F	20.00%	25V
		< CONNECTOR >			
CN4600	⚠*1-580-843-11	PIN, CONNECTOR (POWER)			
CN4601	*1-564-506-11	PLUG, CONNECTOR 3P			
CN4602	1-764-333-11	PIN, CONNECTOR(PCB)(V TYPE)10P			
CN4603	*1-564-511-11	PLUG, CONNECTOR 8P			
		< DIODE >			
D4600	8-719-025-88	DIODE GBU4JL-6088			
D4601	8-719-080-26	DIODE SARS01V0			
D4602	8-719-075-11	DIODE AG01ZV0			
D4603	8-719-075-11	DIODE AG01ZV0			
D4604	8-719-075-11	DIODE AG01ZV0			
D4605	8-719-075-11	DIODE AG01ZV0			
D4606	8-719-072-17	DIODE BYW100-200RL			
D4607	6-500-081-01	DIODE RK34-LF-C4			
D4608	8-719-312-10	DIODE RU4AM-T3			
D4609	6-500-082-01	DIODE RJ43-LF-T2			

REF.NO.	PART.NO	DESCRIPTION			REMARK
D4611	8-719-991-33	DIODE 1SS133T-77			
D4612	8-719-063-70	DIODE D1NL20U			
		< FERRITE BEAD >			
FB4602	1-410-396-41	FERRITE	0.45UH		
FB4603	1-410-396-41	FERRITE	0.45UH		
FB4604	1-535-465-11	LEAD, JUMPER	(5.0MM)		
FB4605	1-535-465-11	LEAD, JUMPER	(5.0MM)		
FB4606	1-535-465-11	LEAD, JUMPER	(5.0MM)		
		< IC >			
IC4600	⚠ 6-700-292-01	IC STR-L474-LF429			
IC4601	⚠ 8-749-013-21	IC TLP721(D4-GR.T)			
IC4602	6-700-293-01	IC SE-012N-LF4			
IC4604	8-759-648-19	IC L7809CV/LSY			
		< COIL >			
L4600	1-410-397-21	FERRITE	1.1UH		
L4601	1-535-465-11	LEAD, JUMPER	(5.0MM)		
L4602	1-412-519-11	INDUCTOR	3.3UH		
L4603	1-412-519-11	INDUCTOR	3.3UH		
L4604	1-412-519-11	INDUCTOR	3.3UH		
		< PROTECTOR MODULE >			
PS4601	1-535-465-11	LEAD, JUMPER (5.0MM)			
PS4602	1-535-465-11	LEAD, JUMPER (5.0MM)			
PS4603	⚠ 1-801-550-21	PROTECTOR, MODULE 2.5A MP250			
PS4604	⚠ 1-801-550-21	PROTECTOR, MODULE 2.5A MP250			
PS4605	⚠ 1-801-549-21	PROTECTOR, MODULE 4.0A MP250			
		< TRANSISTOR >			
Q4600	8-729-029-56	TRANSISTOR DTA144ESA			
Q4601	8-729-119-78	TRANSISTOR 2SC2785-HFE			
		< RESISTOR >			
R4600	⚠ 1-217-155-00	METAL	1	10%	2W
R4601	⚠ 1-260-127-11	CARBON	220K	5%	1/2W
R4602	⚠ 1-217-418-00	FUSIBLE	0.47	10%	1/2W
R4603	1-260-133-11	CARBON	680K	5%	1/2W
R4604	1-215-884-11	METAL OXIDE	47	5%	2W
R4605	1-249-401-11	CARBON	47	5%	1/4W
R4607	1-249-421-11	CARBON	2.2K	5%	1/4W
R4608	⚠ 1-260-128-91	CARBON	270K	5%	1/2W
R4609	1-249-419-11	CARBON	1.5K	5%	1/4W
R4610	1-249-403-11	CARBON	68	5%	1/4W
R4611	1-249-418-11	CARBON	1.2K	5%	1/4W
R4612	1-249-419-11	CARBON	1.5K	5%	1/4W
R4613	1-259-880-11	CARBON	2.2M	5%	1/4W
R4614	1-249-417-11	CARBON	1K	5%	1/4W
R4615	1-249-425-11	CARBON	4.7K	5%	1/4W

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

REF.NO.	PART.NO	DESCRIPTION	REMARK
R4616	1-216-366-00	METAL OXIDE 0.56 5%	2W
R4617	1-249-415-11	CARBON 680 5%	1/4W
R4618	1-249-420-11	CARBON 1.8K 5%	1/4W

< RELAY >

REF.NO.	PART.NO	DESCRIPTION	REMARK
RY4601	⚠ 1-755-389-11	RELAY (AC POWER)	

< TRANSFORMER >

REF.NO.	PART.NO	DESCRIPTION	REMARK
T4601	⚠ 1-437-445-11	TRANSFORMER, CONVERTER (SRT)	

MISCELLANEOUS

REF.NO.	PART.NO	DESCRIPTION	REMARK
	⚠ 1-571-433-21	SWITCH, PUSH (AC POWER)	
	1-424-855-11	COIL, CHOKE 29MMH	
	⚠ 1-792-592-11	CORD, PLUG WITH POWER	
	8-598-529-10	FRONTEND BTF-EU611	
	8-598-585-00	FRONTEND BTD-DU604	
	⚠ 1-453-444-21	TRANSFORMER ASSY, FLYBACK (NX-6020//Z2B4)	
	1-542-437-11	SPEAKER (2CM)	
	1-825-177-11	LOUDSPEAKER (4.2x24CM)	
	1-825-213-11	LOUDSPEAKER (10CM)	
	⚠ 1-451-480-11	DEFLECTION YOKE (Y32RVC2)	
	1-452-896-11	COIL, NA ROTATION (RT200)	
	⚠ 8-453-011-11	NECK ASSY, (NA299-M)	
	⚠ 1-424-888-11	DEGAUSSING COIL	
	⚠ 1-251-946-11	CAP ASSY, HIGH-VOLTAGE	
	⚠ 8-735-079-05	PICTURE TUBE (W76LLZ060X)	
	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM	
	1-452-032-00	MAGNET, DISK; 10MM	

ACCESSORIES AND PACKAGING MATERIALS

REF.NO.	PART.NO	DESCRIPTION	REMARK
	*4-088-715-01	CUSHION, UPPER	
	*4-088-716-01	CUSHION, LOWER	
	*4-088-717-01	INDIVIDUAL CARTON	
	4-090-229-61	INSTRUCTION MANUAL (ENGLISH)	

REMOTE COMMANDER

REF.NO.	PART.NO	DESCRIPTION	REMARK
	1-477-551-11	REMOTE COMMANDER (RM-939)	

TRACE

A new TV Repair Assistance Tool that combines ease of use and powerful PC software tools to allow you to save valuable time during many TV repairs.

RS-232
IR
I²C
SONY-TCSE
TRACE
CTRL
POWER
◄9V DC
◄POWER

The TRACE interface connects to the PC's serial port. It provides connection to the TV's I^{2}C bus and can be provided with an InfraRed transmitter (optional).

The interface is powered by a standard 9 V PP3 battery for portable use, and can also be powered by an external 9V/25mA DC power supply.

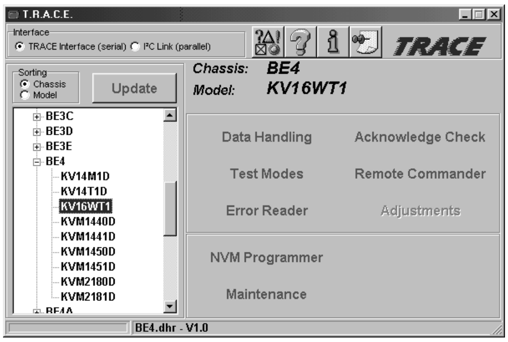
The TRACE software that is supplied with the interface allows you to:

- Read, restore and compare NVM contents via the I^{2}C bus
- Acknowledge check of all I^{2}C devices in the TV set
- Read Error Codes (emulation of the Error Reader tool)

With the optional IR Add-on kit, the following features can be added:

- Remote Commander emulation
- User programmable Functional Check through Infrared
- Fast and documented Test Mode setting of all Sony TV chassis

Additional features such as Adjustments and Troubleshooting are available in chassis-dependent software modules. Please contact your local Sony Service organisation for the latest information.


T.R.A.C.E.
TRACE
Update
BE3C
BE3D
BE3E
BE4
KV14M1D
KV14T1D
KV16WT1
KVM1440D
KVM1441D
KVM1450D
KVM1451D
KVM2180D
KVM2181D
BE4A
Data Handling
Acknowledge Check
Test Modes
Remote Commander
Error Reader
Adjustments
NVM Programmer
Maintenance

Interface
● TRACE Interface (serial) ○ I²C Link (parallel)

Sorting
● Chassis
○ Model

Chassis: BE4
Model: KV16WT1

BE4.dhr - V1.0

Note: For workshops already using the existing I^{2}C Link parallel port interface (9-948-320-30), this software can be used as well, replacing the TV Data Handling software (9-948-340-50), but Error Reader and IR functions can only be accessed with the TRACE interface.

Partnumbers:	TRACE Starter Kit (TRACE interface + software):	9-948-320-70
	TRACE Software (for users of the I^{2}C Link interface):	9-948-340-80
	TRACE IR Add-on (IR interface + Remote Commander software):	9-948-320-80

PC requirements: IBM-compatible PC with operating system Windows95, Windows98, or WindowsNT*.

* WindowsNT only supported with TRACE interface

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Sony UK
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